

QCWA JOURNAL

Volume XLIII, Number 2 • Summer 1994



Have you Made Your Summer Ham Radio Plans Yet?

IN THIS ISSUE...

GROUNDING YOUR YACHT AND OTHER NAUTICAL VEHICLES

A 1948 FLIGHT WITH PRESIDENT TRUMAN

THE REGULAR COLUMNS

PLUS MUCH, MUCH, MORE...



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EDITORIAL

What Do You See?

Take a look at the "New Members" lists. What do you see? Do you see the name of a friend of yours that you've lost touch with over the years? Well, it's about time you drop him or her a line and welcome him or her into the organization.

Do you see the name of someone you know and see quite often. Do you see your call sign following that new recruit's call? If not, why not? Did it just slip your mind that your friend might be eligible and you let the recruiting of him or her go to another?

Do you see your call among those listed in the sponsor's column at all? Some calls, such as our president's, appear quite often. You may say that Harry has an unfair advantage because he sees more people than most. Well, maybe so, but what are you doing with the friends *you* see, or even those long lost friends that you know that now live across the country?

Take another look at the list of new members. Scan down the list until you reach member number 26627. That belongs to my good friend and fellow VHF columnist (for *QST*), Emil Pocock, W3EP. The other day, after he had applied for membership, he was so anxious to learn his number that he called National. Why? Emil is a professor and one of his students was interested in pursuing a scholarship. Now, because someone took the time to recruit Emil, a student has a chance at a scholarship. You may never know what will be the end result of your recruitment of a new member.

What about at the chapter level? National will supply a list of names of "at large" members in your area to your chapter secretary. Take a look at Chapter 14's report in the Chapter Report section. The last paragraph states, "Fifty-six 'at-large' members in our area were contacted by the Secretary and invited to join their local chapter. Ten of these are now new members of Chapter 14. In addition, we have two members new to QCWA." Nice going, Joe Saugier, K6CD!

QCWA can either be an alive and growing organization or, to use an analogy I learned in business school, it can be on the decline side of the growth cycle of an organization. QCWA is not unlike any other organization. It grows, one member at a time.

So, when was the last time that you talked to a potential member? Who is eligible? You know the rules. And it doesn't take a rocket scientist to figure out that every "W" and "K" one-by-three call sign holder is eligible. Plus, almost all "WA2" and "WA6" call sign holders and a good number of the rest of the "WA" and a number of the "WB" call sign holders around the country are eligible. Besides, what's keeping you from simply asking, "Hey Buddy, how long have you been a ham?"

I told you that this magazine would turn into a recruiting tool. By the letters I'm receiving from you, you agree. So, if nothing else, write General Manager, Jim Walsh, at 159 E 16th Ave., Eugene, OR 97401, and request a few copies of the *JOURNAL* so that you can pass them around to your friends. Make sure, though, that you point out the membership application form in the center of the magazine. And, when you do, fill out the sponsor's line ahead of time. That way you will be sure of seeing your call in the sponsor's column of the New Member lists. I'll be looking for yours. I hope I see it next time, along with a list of several new members!

Oh, one other thing. When you pull out your membership card from your wallet or purse to check your member number, check also the expiration date. If you are up for renewal, send in a check for three more years, or even for life membership. These dues are so low that they can't possibly hurt your pocketbook.

IN THIS ISSUE...

As you've come to expect, once again this issue is full of articles for your reading enjoyment. Take a quick look through the table of contents to see the increasing variety.

If you would like to read an article written by you, then, by all means, please send it in. While there are no guarantees of publishing it and the pay is pretty low (all the free copies of the *JOURNAL* you can use), the prestige is very high. Until next issue...

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The *Journal* is available free to blind and physically handicapped individuals on audio cassette tape. For more information, contact Blanche Randles, W4GXZ, (May 1-October 1) HCR-32 Box 591, Stoddard, NH 03464, 603-446-3492; (October 1-May 1), 6002 N. Fremont, Tampa, FL 33604, 813-870-0867.

Table Of Contents

Editorial	62
Our Cover	63
Welcome Aboard New Advertisers	63
Erroneous Silent Key Report	63
Deadline for Next Issue	63
QCWA Officers And Board Of Directors	64
The President's Message	By: President Harry Dannals, W2HD 65
The General Manager's Report	By: GM Jim Walsh, W7LVN 65
Letters To The Editor	66
Current Contests	Courtesy John Dorr, K1AR 66
FCC Highlights	By: Jack Kelleher, W4ZC 67
QCWA Filing on FCC Vanity Callsign Proposal	68
Stu Meyer, W2GHK, Silent Key	69
Bylaws Changes	69
Minutes of April (Spring) 1994 Board Meeting	70
Grounding Your Yacht	By: Gordon West, WB6NOA 71
A 1948 Flight with President Truman	By: Don Johnson, W6AAQ 73
QCWA Board Emphasizes Scholarships	By: Leland Smith, W5KL 74
Ham's Health	By: Dr. Dub George, WA5BFF 75
1994 Amateur Radio Mail Order Catalog Announcement	75
Amateur Radio Satellite News	By: Keith Pugh, W5IU 76
CQ DX	By: Chip Margelli, K7JA 78
Measuring Coil Capacitance	By: Phil Anderson, WØXI 79
Scholarship Contributions Listing	80
Silent Keys	81
1994 National Convention News	By: Bob Carroll, K5IE 82
1994 QCWA National Convention Announcement	83
QCWA Membership Application	85
QCWA Member Supplies	86
Chapters On The Air	87
Silver Belles	By: Carol King, K5CPZ 88
Chapter Reports	91
New Members	103
1994 QSO Party Results	By: Walt Brink, W3WPY, and Bill Miller, K2GC 107
Classic Radio Exchange Contest Announcement	109
The Wireless Exchange	By: Doug Hensley, WJ5J 110

Our Cover

Have you made your Ham Radio Summer plans yet? If they are nautical in nature, you might want to take a look on page 71 for the article "Grounding Your Yacht and other Nautical Vehicles," written by Gordon West, WB6NOA.

For you who are nautically curious, the cover is a picture of Don, W6EEN, and Phyllis Doughty's 45 ft symbol aft cabin motor yacht. It is powered by twin 250 hp turbo Volvo diesels and can be seen in Discovery Bay in the San Joaquin Delta area of northern California.

In case you're wondering about Field Day, Don and Ron Luttringer, K6XC, have, on several occasions, used the boat for that contest!

Welcome Aboard New Advertisers

The *JOURNAL* would like to welcome its first commercial advertisers. Life member, Craig Boyer, AH9B, has purchased two 1/3-page ads for his company, Oklahoma Comm Center. Gerald Williamson, K5GW, has purchased a full page ad for his company, Texas Towers. Jim McCoy, WØLQV, has purchased a classified ad for his company, LQV Engraving, for the next four issues of the *JOURNAL*. Please support these advertisers as they have thought enough of QCWA to support it with their advertising dollars.

If you have a product or service that you would want to see advertised in the *JOURNAL*, please contact us for a media kit.

Erroneous Silent Key Report

In the Spring issue of the *JOURNAL* we reported that Wayne Johnson, KC4DD, was a Silent Key. Fortunately, Wayne is not a Silent Key. GM Jim Walsh, W7LVN, has extended the apologies of QCWA to Wayne for this error.

Future listings of Silent Keys will only be those that are confirmed with an obituary or a notice from the Family. We will continue to use the *QST* Silent Key column for a source, since those listings are confirmed.

Deadline for Next Issue

Please have your Chapter Reports, articles, advertisement commitments in the mail by August 1, 1994. Thank you very much for your support of the *JOURNAL*.

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Clarence Seid, W2KW	1969-1971
Barry Goldwater, K7UGA	1972-1973
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Leland Smith, W5KL	1986-1989

Executive Secretary/General Manager

Ralph Barber, W2ZM (SK)	1955-1964
Gus Gironda, W2JE (SK)	1965-1973
Ethel Smith, K4LMB	1974-1976
Ted Heithecker, W5EJ (SK)	1976-1991

The Quarter Century Wireless Association, Inc. was founded December 5, 1947, as a non-commercial association of radio amateurs organized for the promotion of interest in amateur radio communication and experimentation, for the establishment and advancement of the radio art and of the public welfare. QCWA is an incorporated association without capital stock chartered under the laws of the State of New York, and is a tax exempt 501(C)3 organization under the Internal Revenue Code of 1986. Its affairs are governed by a President, Vice-President, Secretary, Treasurer and a Board of Directors, whose voting members are elected every two years by the general membership. QCWA is non-commercial and no one who could gain

financially from the shaping of its affairs is eligible for membership on the board. In order to qualify for membership in QCWA one must have demonstrable proof of having been first licensed as an Amateur Radio operator at least 25 years prior to application for membership and is currently licensed. Membership inquiries and general correspondence should be addressed to the business office at 159 E 16th Avenue, Eugene, OR 97401-4017 USA. Telephone, 503-683-0987. Fax/BBS, 503-683-4181.

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The President's Message

The old saying, "All good things come to an end!" was probably never more correct as these words are being written. This is my final message to you as the clock winds down on my fifth year as QCWA president. Only our founding president, John DiBlasi, W2FX, served more years than your outgoing officer. The Board wisely determined that terms shall be two years and no president can succeed himself more than once for a total of four years. (You may recall that a recent election change to voting every other year provided certain of the Board who were elected to have an extra year in office, thus my five years.)

Fellow members, *it has been fun!* Oh, yes, there were a few times when that statement was severely tested. We had a change of our headquarters location, several resignations in office and a few other problems, but looking at the entire picture, QCWA rose to each challenge and we were always stronger for it.

While glancing through my recent columns, it was readily noted that a common theme seems to ride through many of them. That theme is, "The 'good old days' are still ahead!" That concept of life has always existed within me and it has usually proven to be true in my personal life. Just when everything is going just so perfectly, a light on the horizon says, "Here are better days and you should continue toward them!"

History is important. It is a building block. However, we must not stop in the satisfaction that we have accomplished everything which must be done. Your QCWA, despite the fact that it has been a tribute to years of Amateur Radio experience, is an organization which must continue to look forward. Fortunately, the QCWA has what it takes to continue that forward look. One need only see what has been accomplished at our Headquarters with all of the modern techniques of the day being employed. One need only take a look at our latest *QCWA Journal* to see what we have before us. Yes, the good days are still ahead!

"Buzz" words from many of my messages come to mind at this time.

Participation, contribution, activity, "Elmering" and all these mean your personal involvement in QCWA. Sure, it is well known that many of our members cannot take a really active role at this time, but there are many others who might devote a few hours per month or week to the future of Amateur Radio.

How about teaching? How about taking on one of the leadership posts in your Chapter? How about starting a Chapter if there is none in your area? How about recruiting some of your old friends into this great organization?

Yes, those are challenging questions. Please take a look at each very carefully and see if there is some way in which you and your friends can respond in a positive way. The rewards are many, you can be assured. One of the biggest rewards is the personal satisfaction you receive when you have done something for others. If you have ever been a teacher, you know that feeling. It is like no other. You have taken an individual or individuals who know little or nothing about Amateur Radio and you have taught them a skill which will be beneficial for their lifetime. What more can you ask? If this final message leaves only this one thought with you then it has been worthwhile for me.

Fellow members, it has been a great voyage through all kinds of seas. Thanks for permitting me to be at the wheel during these five years. Good luck to you all. Support your new officers and give them your cooperation. My very special thanks go to my wife Kay who has shared me with Amateur Radio for all 42 years of our married life. Her patience and understanding have made my time possible. BCNU in the pages of my log.

73 de Harry Dannals, W2HD, President.

The General Manager's Message

Recently there have been a number of questions about renewal time for memberships. It appears that there is a lack of information available among the members of QCWA. So, once again, let me review the procedures.

Every quarter we bill all those members whose due will be due in that quarter. As I write this, it is the first of June and we have just mailed billings to everyone whose dues will be due up to September 1, 1994. This mailing is now in a re-mailable envelope. It is all addressed and all you have to do is insert your check and put a stamp on the envelope. We have been using these envelopes since the December billings. Most everyone has indicated that they are convenient and they appreciate the mailer.

Now, inspect the label on your QCWA Journal (or on the billing envelope) and among other familiar items the first line of the label may be confusing. Reading from left to right, on the first line.. If you belong to a chapter there will be a maximum of three numbers (the Chapter number), then the next set of numbers is your membership number (five numbers maximum). This is followed by either a date expressed in six digits such as 00/00/00 and it may or may not have any numbers printed. If you are a Life member, there will be no numbers.. however if you pay your dues on a one, two or three year basis, the date will indicate the expiration of your membership. This is followed by a "L" if the member is a Life member and then comes a two number date. This last item is the year you were first licensed.. as we have it recorded.

The rest of the label is name, address etc.

We are also using a program which checks the address of each member and determines the correct spelling of the address and also determines the zip plus four coding for that address. If this program does everything correctly and we have at least 85% of the addresses coded, then we can obtain a better postage rate in our mailing. I note that oftentimes the post office department has renamed many streets and yet we have the older address in our records. Please let us know if your address is changed so that we can make the proper entry in our data base.

My very best to all of you. 73 de Jim Walsh, W7LVN, General Manager.



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 at 405-528-0746.

Dear Editor,

I was very disappointed and angry when I found my Chapter 65 news and photo were not in the Spring 1994 issue of the *Journal*. Our Chapter members and others were short-changed and many commented on the omission. My report to you was postmarked January 26, more than sufficient time to reach you by the deadline of February 1. We would like to know what happened.

Sincerely, Ken Palmer,
 Secretary.

Dear Editor,

We enclose copy for the Summer Issue of the *Journal*. Hope it makes it this time as I took a little guff when our last submission failed to appear. Hard to understand as it was sent to you in January. Anyway knowing the way the USMule operates it was probably sent to South America or somewhere else.

73 de Al Cutting,
 W7ENQ, Secretary-Treasurer,
 Chapter 87.

Ken and Al,

After one of my many trips to the post office, I stuffed my mail in the back of my briefcase. In it were your reports. I discovered them when cleaning out my briefcase just before a trip but after I had published the last issue of the *Journal*. I apologize for my lapse of memory. I trust you will find your reports in order in the "Chapter Reports" section.

73 de Editor.

Dear Editor:

Congratulations to you and your staff for the outstanding new face, form, and content to the *JOURNAL* for the 90s—and hopefully beyond.

73 de John Ewing Gray,
 K9GFZ.

John, thanks for the kind words—
 ed.

Current Contests

June 25-26	ARRL Field Day
July 1	RAC Canada Day
July 2-3	Venezuela SSB DX Contest
July 9-10	IARU HF World Championship
July 9-10	CQ WW VHF WPX Contest
July 16-17	Colombian Independence Day
July 23-24	Venezuela CW DX Contest
July 23-24	SEANET CW Contest
July 30-31	RSGB IOTA Contest
July 30-31	Connecticut QSO Party
August 6-7	YO-DX Contest
August 6-7	ARRL UHF Contest
August 13-14	WAE CW Contest
August 20-21	SEANET SSB Contest
August 20-21	ARRL 10 GHz Cumulative #1 wknd
August 20-22	New Jersey QSO Party
Sept 1	Canada UHF Sprint
Sept 7	Canada 432 MHz Sprint
Sept 3	Panama Anniversary Contest
Sept 3-4	Bulgarian DX Contest
Sept 3-4	All Asia SSB DX Contest
Sept 4	Bulgarian DX Contest
Sept 5	Michigan QRP Club Sprint
Sept 7-9	YLRL Howdy Days
Sept 10-11	ARRL VHF QSO Party
Sept 10-11	WAE SSB Contest
Sept 10-11	Montana State QSO Party
Sept 11	North American CW Sprint
Sept 15	Canada 220 MHz Sprint
Sept 17-18	Scandinavian Activity CW Contest
Sept 17-18	ARRL 10 GHz Cumulative #2 wknd
Sept 18	North American SSB Sprint
Sept 24-25	CQ WW RTTY Contest
Sept 24-25	Scandinavian Activity SSB Contest
Sept 24-25	Washington State Salmon Run
Sept 25-26	Classic Radio Exchange
Sept 26	Canada 144 MHz Sprint
October 1	Canada 50 MHz Sprint
October 1-2	California QSO Party
October 1-2	VK-ZL Oceania SSB DX
October 1-2	RSGB 21/28 MHz SSB
October 8-9	VK-ZL Oceania CW DX
October 8-9	Illinois QSO Party
October 12-14	YLRL CW Anniversary Party
October 15-16	JARTS WW RTTY Contest
October 15-16	QRP ARCI Fall CW QSO Party
October 15-16	Worked All Germany
October 15-16	RSGB 21/28 MHz CW
October 26-28	YLRL SSB Anniversary Party
October 29-30	CQ WW SSB DX Contest
October 29-30	ARRL EME Test 1st weekend

Courtesy John Dorr, K1AR, and CQ magazine

Note: Dates for contests in August, September, and October are based on previous years' dates and John's "Contest Schedule" which has appeared in his column in CQ magazine. Check with current publications for exact dates and times for each contest.

FCC Highlights

By: Jack Kelleher, W4ZC

ARRL Seeks Primary Status Segments in 902-928 MHz:

In mid-1993 the FCC proposed to accommodate wind profiler radars at 915 MHz, and in a separate action, proposed to expand the AVM (Automatic Vehicle Monitoring) Service into a new Location and Monitoring Service in the entire band. In the latter proceeding the FCC invited comments on whether they (the commenters) believe it possible to establish reliable LMS systems considering the number and diversity of other users of this band. If not, commenters should offer potential solutions, such as removing Part 15 users and amateur operations from the band, restricting where such users could operate in the band, or placing stricter limitations on operations. (An Editorial in the June 1993 issue of *QST* traces the history of allocation and use of this band since 1947).

ARRL has filed a Petition for Rule Making with the FCC asking that the Amateur Radio Service be granted Primary Status in the 902-904 and 912-918 MHz portions of the band. ARRL wants amateurs to have primary status because new developments in the band could make ham usage more difficult there, and a primary allocation would help preserve amateur operations; and because the FCC has previously stated that amateurs should use 902-928 MHz to serve amateur needs that formerly used 220-222 MHz.

Amateur Status in 2300-2450 MHz Band may be in Jeopardy:

A preliminary plan from the National Telecommunications and Information Administration (NTIA) for reallocating Government frequencies to non-government uses does not go far enough in protecting the needs of amateurs, the ARRL says (See the ARRL Letter 2-24-94).

Specifically affected would be the 2300-2450 MHz band. The preliminary plan would transfer some of that band to new non-government uses, which would not necessarily result in the loss of frequencies for amateurs, but amateur sharing could be more difficult than it now is with government users.

NTIA proposes to leave 2400 to 2402 MHz and 2417 to 2450 MHz as now allocated, in part to permit continued amateur and especially amateur satellite operation. The frequency segments of 2390 to 2400 MHz and 2402 to 2417 MHz would be made available for new non-government services as early as August 1994, while 2300 to 2310 MHz would be made available later, under the NTIA plan. The Plan is how NTIA proposes to implement a reallocation of spectrum from government to non-government use, as mandated by Congress last year.

In its letter the League said that recent advances in techniques, such as packet radio and other digital modes, as well as an explosion in the number of licensed amateurs, was causing more and more of them to move up in frequency.

ARRL's Technical Relations Manager, Paul Rinaldo, W4RI, says the 2300 MHz issue is important "...because it is spectrum. Amateurs have always tended to move up in frequency. The 2-meter band filled up, now 222 MHz is filling up, and so on. Other services tend to drift up as well."

Rinaldo says that while amateurs currently cannot demonstrate great usage of the 2300 MHz range, neither can other services. "This range is vital to amateurs," Rinaldo says "because of its short range propagation characteristics, which are essential to networking and which will be needed for very high speed digital links as they become available to amateurs."

FCC Surveys Telephone Interference:

The FCC has released the results of a telephone interference survey, and concluded that, since some telephones are "bulletproof," all of them should be.

The survey's goals were to pinpoint the following:

- What telephones are affected;
- What type transmitting stations are involved (including power levels);
- Whether commonly available filters are effective in eliminating interference;
- Whether specially designed telephones are effective in eliminating interference.

Thirty-five FCC field offices each picked three random cases of telephone interference on record, and then visited the scenes. The transmitting stations included 47 citizens band, 27 amateur, 23 AM broadcast, 10 FM broadcast, and one international broadcast station. None were specifically identified. The power levels of the transmitting stations varied from two watts to half a million watts, one third of them running less than ten watts.

At the location experiencing interference, FCC personnel first tested the telephones on site, then tested their own "bulletproofed" telephones, as well as several commercially available filters. Altogether, 241 different telephones were tested. The FCC tested its bulletproof telephones at 52 locations and found them 96% effective. (Ed Note: This aspect of the survey has given rise to a number of inquiries about the nature of these instruments. The bullet proof 'phones are identified in Attachment 5 to the FCC Survey, with a note that: "All 'phones were refurbished, internally modified commercial units." The modifications were not discussed in the Report. Another source points out that these 'phones were all of the non-electronic type, and that it is not nearly as easy to "immunize" a telephone that contains lots of active devices. It can be done, it's just not as easy.)

At the transmitting station, FCC personnel logged the type of station, measured its power, and got information on antenna height, antenna gain, and distance from the complainant.

At the complainant's location, FOB personnel disconnected all telephones, then plugged them, one at a time, into a single jack, while the station was transmitting. Also tested were the effectiveness of several commercially available telephone filters. Finally, FOB personnel connected "bulletproof" telephones to the telephone jacks and listened for interference.

Of the 241 telephones tested, 68% received interference. In tests of the AT&T Z100B1 filter on 138 telephones receiving interference, 62% continued to receive interference. A number of other filters were tested, on 82 telephones receiving interference. As a group, these filters eliminated interference on 29% of the telephones, the FCC said.

Among the FCC's conclusions was that transmitter power did not seem to be a significant factor; they said that 10 watts or less caused telephone interference in one third of the cases.

The FCC said that filters worked only one-third of the time. Manufacturers can design telephones to be interference free, the Commission said, citing its bulletproof telephones, which were immune from interference virtually all of the time.

The FCC said the transmitting stations most likely to cause telephone interference are citizens band, amateur and broadcast stations. Citizens band stations accounted for half the

telephone interference cases, while amateur and broadcast stations caused the other half.

The FCC said that telephone interference filters "cannot be relied upon to eliminate interference" since, in two out of three cases in this survey, they didn't work.

The report emphasized that because the survey was based on what the FCC called a random sample "...it cannot be claimed that identical results would be derived under scientific surveying and testing, nor should the results be construed as FCC endorsement or criticism of any particular manufacturer's product." The FCC also said, however, that "...given the enormous numbers of instances in which this type of interference is experienced by consumers, it is our hope that this survey, notwithstanding its informality, will serve as a catalyst for affected parties to productively address and resolve this problem. As always, FOB remains ready to assist in that effort."

Most of the foregoing is from the "ARRL Letter" for March 24th, which concludes, "If you would like a copy of the survey, which includes a list of the telephone models checked, send an SASE with two units of first-class postage to the Technical Information Service at ARRL HQ."

Amended Packet Message Forwarding Rules:

The FCC has selectively amended part 97 of its Rules, effective June 1, 1994, to enable packet radio message forwarding systems to operate while retaining safeguards to prevent misuse. The action culminates more than three years of consideration as to who is responsible for the content of messages transmitted to destinations via one or more intermediate forwarding stations, or "digipeaters."

The problem arose during the Persian Gulf war, when a message addressed to all U.S. Amateurs was inserted into the packet system. The message publicized a 900 number to call to register opposition to the war in Iraq. A complaint was filed with the FCC by

an amateur who believed this to be a business message because part of the revenues from these numbers are paid to the sponsor, and therefore prohibited under part 97.113 of FCC Rules regulating the Amateur Radio Service.

The FCC sent violation notices not only to the originator, but also to packet repeating stations that automatically retransmitted the message. Up to that point amateurs believed that message originators were the sole accountable party for such violations.

The FCC pointed out that there is no current supervisory authority in the amateur digital network, which makes these unsupervised systems easy targets for misuse. The Commission said that it could be difficult for it to establish, after the fact, that a particular station originated a high speed digital transmission. For these reasons the Commission said there must be ongoing oversight of the system, and the control operators of the first forwarding stations are in the best position to provide such oversight.

The FCC Report and Order in this matter: (1) holds the message originator primarily accountable for its content; (2) Says that originators of messages posted for retransmission (such as to a "bulletin board") by amateur stations but not yet entered into the packet system must be known to the licensee of the first forwarding station—or the licensee of the station which enters that traffic into the network must be responsible for its content.

The Commission also clarified that the station that receives a communication directly from the originating station and introduces it into the message forwarding system is the first forwarding station.

The Commission believes that these rule changes will enable contemporary high speed message forwarding systems to operate as their designers intended, while retaining the minimum safeguards necessary to prevent misuse.

COMMENTS OF THE QUARTER CENTURY WIRELESS ASSOCIATION ON NOTICE OF PROPOSED RULE MAKING IN THE MATTER OF AMENDMENT OF THE AMATEUR SERVICE RULES TO IMPLEMENT A VANITY CALL SIGN SYSTEM.

The Quarter Century Wireless Association (QCWA), founded in 1947, comprises more than ten thousand active amateurs. To be eligible for membership, an amateur must have received his first amateur license at least twenty five years prior to his date of application. Thus, the total experience of our members aggregates many thousands of years.

The purposes of QCWA are to operate exclusively for charitable, educational and scientific purposes (entitling the Association to exemption under the provisions of Section 501(c)(3) of the Internal Revenue Code of 1954, as amended); and more specifically to promote interest in Amateur Radio communications and the advancement of the electronic art, making use of the reservoir of knowledge and experience represented within the membership of QCWA for the benefit of all Radio Amateurs and the furtherance of the Public Welfare through Amateur Radio communications; and to provide a scholarship fund for worthy students who are Radio Amateurs.

The QCWA is primarily concerned about the many Amateur Radio licensees who were required to surrender their old call signs when they moved to another call area, per the Commission's rules at that time. However, when this was no longer a requirement, there was no vehicle for re obtaining the lost call because the Commission was now systematically issuing call signs. When this point was discussed with Commission personnel several years ago, there was very little sympathy shown for those who had lost their identity, if you will, by

the prior action. In fact, the comment was made that Radio Amateurs have an obsession with call signs!

Yes, there is a binding relationship for many with call letters they have been assigned through the years. Many of those who "lost" the earlier call would be extremely happy to have the old call back. Undoubtedly, there are others who have been content with the luck of the draw when the required change was put into effect. It is for the former group that the QCWA is requesting special consideration under the new "Vanity Call" system, as the only avenue which can achieve the results desired . . . re obtaining that call which was once taken away.

The QCWA recommendation leaves the burden of proof of prior holding of a call to the applicant. Perhaps the Commission would accept a listing in the *Callbook* or other representative source. Perhaps the Commission would require a copy of the former license as the only legitimate proof. While this may be a difficult requirement, it is understood that it may be the only legal manner in which proof of prior holding of the call can be provided. The QCWA also understands that there may be a few cases where a call may have been reissued after it was lost due to relocation. In such circumstances, there is no intent that the present holder of that call should "give it up!"

Another consideration is that the Commission permit a prior holder applying under this provision, if approved, to hold a call which is presently considered an Extra Class or Advanced Class identification. This should not present too much difficulty since there are many hundreds, perhaps thousands, of licensees on the air today

with call signs not matching their license class. Of additional concern to QCWA is a point which is probably of concern primarily to older QCWA members, or other senior citizens of Amateur Radio. QCWA membership includes a few amateurs who received their first license prior to 1922, and a substantial number whose tenure dates back to the late 1920s and early 1930s, and it is in the interest of these pioneers in our hobby that we submit these additional comments. Changes in licensing procedures for radio amateurs; changes in record keeping concerning call letter assignments, particularly prior to World War II; and the transition from manual to automated (computerized) record keeping, have obscured the "paper trail" of many early call letter assignments.

The QCWA membership by its very nature includes amateurs who received their initial call letter assignments when the rules were different, and when there were many opportunities for one-by-two and one-by-three calls to be assigned. The proposed rules allow for such calls to be recovered by the original holder. However, the proposed rule, that the applicant can seek only call signs from the groups corresponding to their present license class or lower license classes, would inhibit the process for a certain few.

For example, consider the situation of an amateur whose original call was a one-by-two call, W9XX, whose license subsequently lapsed, who received another call sign upon requalifying, and who presently holds an Advanced class license. Our interpretation of the proposed rules indicates that this individual cannot regain his original one-by-two call.

To allow for the above two circumstances, we propose that the Commission consider a one-time-only "window" for a short period, e.g., 90 days, at the onset of the new rules, during which an applicant, such as those described previously, could regain his original call, if available, under the conditions QCWA has put forth in these comments.

The QCWA appreciates that a major objective of the proposed rule changes is to allow already-licensed amateurs to recover a call sign which they held in the past; or to obtain a preferred call sign, subject to the provisions set forth in the NPRM. This flexibility is highly desirable, and has been awaited by the amateur fraternity for years. Now it is about to become a reality. We appreciate that the road to this proposed action has been a long and difficult one, and we join others in thanking the Commission for pursuing and achieving this objective despite the obstacles.

The QCWA is not in a position to suggest how the provisions that we have suggested might be implemented, since we are not conversant with the configuration and programming of the new computer facility. However, we stand ready to provide any assistance which might be required in clarifying this proposal and discussing practical implementation thereof.

Respectfully submitted, April 21, 1994, by Harry J. Dannals, W2HD, President, QCWA.

Stu Meyer, W2GHK, Silent Key

On Saturday evening, May 21, Stu Meyer, W2GHK, succumbed to a heart attack in his home following his return from a business trip to Milwaukee.

At the time of his passing, Stu was President of the Radio Club of America. He was past president (1982-1985) of the Quarter Century Wireless Association. A former chief engineer of Hammerlund, he eventually became its president. He was also employed for a long time with E. F. Johnson. Additionally, he served as an engineer for DuMont Labs and Link Radio Corporation.

Stu was the recipient of the 1992 Henri Busignies Memorial Award, the 1988 Fred M. Link Award, and the 1983 President's Award for the Radio Club of America, and the 1992 recipient of the Distinguished Service Award for QCWA.

Stu is survived by his wife, Lottie, and two daughters Rosemary, and Susanne, WB4USX. His wife suggests contributions to the Radio Club of America or the Quarter Century Wireless Association Scholarship Fund.



Past QCWA President, Stu Meyer, W2GHK, February 4, 1918-May 21, 1994. Photo courtesy K4LMB and AutoCall magazine.

Bylaws Amendments

As per the instructions of the Board of Directors at their April 1994 Board meeting, the following bylaws amendments are being published.

1. Article III, Section 2 is rewritten to read: "Meetings of the Board of Directors and the regular meetings of the Association may be held within any state of the United States or as authorized by the Board of Directors."
2. Article VI, Section 4, second sentence is rewritten to read: "Such petitions shall be received by the General Manager by December 31st of the appropriate year."
3. Article VI, Section VI, Section 5, first sentence is rewritten to read: "Each candidate shall submit in writing a brief biographical outline to the General Manager by February 1."

The above changes in the Bylaws were adopted by the Board of Directors and will become a permanent part of the Bylaws thirty days after publication in the *QCWA JOURNAL*.

Minutes: Spring 1994 QCWA Board Meeting

Falls Church, Virginia, April 22-23, 1994

The meeting was called to order by President Harry J. Dannals W2HD at 8:30 AM on April 22, 1994 at Tyson's Corner Ramada Hotel. Those in attendance were: President Dannals, Vice-President Lew McCoy W1ICP, Secretary John Swafford W4HU, Treasurer Wes Randles W4COW, Directors Walt Brink W3WPY, Milt Chaffee W1EFW, Arch Doty K8CFU, John Edel K8LBZ, John Huntoon W1RW, Jack Kelleher W4ZC, Ethel Smith K4LMB, Jack Troster W6ISQ, Bill Stevens W6ZM, President Emeritus Leland Smith W5KL and General Manager Jim Walsh W7LVN. Director Miligan W8KW was absent, still recovering from surgery. Also present at the invitation of the Board were Joe Lynch N6CL, Editor of the *QCWA Journal*, and 1994 director candidates Gladys Chase W1VPF, Gary Harrison WA0RWS and Croft Taylor, VE3CT. Candidate Ed Yoder W3YMB, had planned to attend but called to state that emergency illness in the family changed plans.

The Board observed a moment of silence for all Silent Keys and especially for Ted Heithecker W5EJ, former QCWA General Manager, Lloyd Colvin W6KG and Edwin Bernet WA4UPI, Chairman of President Dannals' home Chapter 155.

After a correction was made to the October published minutes to change the Scholarships awarded from 14 to 10 with an amount of \$650 each, the minutes were approved as amended.

President's Report - President Dannals reported that his monthly letters to the Board have continued without interruption providing a regular review of activities. He stated that Vice President McCoy and Director Kelleher delivered the QCWA comments in the matter of Vanity Calls on April 21st. He provided a recap of the 501(c)3 situation stating that the ARRL had met its promises to provide adequate corrective measures in their reporting.

QCWA continues to be represented at major conventions and hamfest activities throughout the country. Wes and Blanche Randles were praised for their excellent job in Miami. Dayton will be covered by the General Manager and others. Jim will also cover the Texas convention and Dannals will be present at Rochester (NY.) Jim reported on the two-day gathering at Palm Springs (CA) where he attended with others. More than 200 persons were present.

The President recognized the continued excellent work being performed at HQ by Jim and Jan and extended his personal thanks to both of them. He also commented on the excellent issue of our *QCWA Journal* produced by Joe Lynch.

His closing remarks referenced the fact that this was his final meeting as president and it had been a most rewarding five years.

Secretary's Report - Secretary Swafford thanked the General Manager and the Board for their excellent cooperation during the past reporting period. He particularly cited the prompt reactions on mail ballots. In addition he commended the General Manager for his outstanding work with the Chapter reports.

General Manager's Report - General Manager Walsh provided the Board with a comprehensive report on new developments at Head-Quarters. He covered new procedures in use, including netting of the computers, changes in filing and database techniques, the reconciling of member records with the new database, new dues collection techniques, HQ station W2MM and the MEMSER contract with the Board. The latter was subsequently signed and is now in use.

Dues collection via new, easy-to-use envelopes have shown a very positive increase in returns. Consideration is now being given to transferring original membership applications to CD-ROM for long-term preservation. The Finance and Administration Committee will study such possibilities and report to the Board. W2MM will be on the air in the very near future with antenna work the only remaining effort to be completed.

Finance & Administration Committee Report - Vice President McCoy, as chairman, reported on the

activities of his committee with re-marks and additional comments from Treasurer Randles and General Manager Walsh. A new accounting arrangement will be instituted with basic handling of the General Fund taking place at QCWA HQ utilizing a local accounting firm. The new system will result in a reduction of overall costs and provide for expeditious handling of operating funds. The Treasurer will continue to handle funds for the Memorial Scholarship Program and expenses of the Board.

At the conclusion of the above presentation, the following enabling motions were passed by the Board:

- That the Accounting firm of ConCannon, Gallagher, Miller and Company, P.C., be replaced by Robert B. Wright, Eugene, Oregon, effective July 1, 1994, utilizing the procedures set forth in his letter to the committee dated February 21, 1994, and

- The Board adopts the proposal made by the General Manager in his letter of March 17, 1994, concerning in-house posting of accounts.

A detailed discussion of our present investment program was given by the Vice President. He encouraged the transfer of a portion of our investment portfolio from mutual funds and stocks to bonds with an inherently better return at this time. A motion to allow such a change was made and tabled until later in the meeting. The motion was subsequently lifted from the table and passed, permitting a portion of our funds to be transferred to AA or AAA bonds after approval by the Finance & Administration Committee.

Treasurer Randles discussed the viability of our Life Membership rates under the present low interest rate environment. It may be necessary to increase Life dues and the committee will study this matter and report at the next meeting of the Board.

QCWA Journal Report - *Journal* Editor Joe Lynch provided a detailed report on the current *Journal*. In general, comments received concerning the latest issue have been very positive. He covered the latest printing and foreign and domestic mailing costs. He provided the Board with an advertising rate card and a sample letter to potential advertisers. He has already received several expressions of interest and the next *Journal* is expected to carry several pages of advertising. It is expected that advertising will help to provide sufficient additional funds to maintain the present *Journal* quality and permit more use of color and other enhancements.

Membership Services & Activities - Chairman Brink reporting for the committee stated that chapters have been contacted relative to requests for rosters, membership applications, historical information and the ordering of hamfest supplies. He praised the General Manager for his assistance in providing Chapter information. Delinquent Chapters have been contacted and provided with suggestions for corrective action or reorganizational ideas. The committee has supplied an estate radio inventory form to assist in the disposal of radio equipment of Silent Keys.

A brief report was presented on the recent QSO Parties. A list of the top ten scores was circulated. Participation was on a par with last year. Rules and format for 1995 will be available at the El Paso Convention.

Participation in the weekly National Net is down somewhat because of poor propagation conditions. Director Brink indicated he and W4COW are alternating Net Controls. He is still looking for volunteers so that the NCS load can be shared. Volunteers?

Convention Coordination - Treasurer Randles reported that the El Paso Convention, scheduled for September 30 - October 1, planning is moving along well. This will be the site of the next meeting of the Board.

The Board approved conventions in 1995 in New England and in 1996 in Ottawa, Canada. A report from the 1993 St. Petersburg convention indicated that it was a huge success. Eight hundred dollars each was donated to the Scholarship and Building Funds.

Audio Cassettes for the Blind - It was reported that 77 tapes are presently being sent out. Committee Chairperson Blanche Randles W4GKZ urges

members to report any possible additional recipients to her for inclusion in the mailing list.

Plans & Programs - Director Kelleher stated that his committee has been working on guidelines for qualifications of candidates for QCWA Officers and Directors. It is expected that the final report will be ready for presentation at the El Paso meeting.

Membership - Director Edel reported that the cooperation of the Board in attracting new members has been outstanding. He stressed the fact that Membership is everybody's obligation and the Board has responded.

Publicity & Awards - Director Ethel Smith in her final report to the Board cited the excellent job done by her committee members: Directors Kelleher and Troster.

The following nominations for Honor Awards were approved:

- John DiBlasi Award	- Helen Schmock, W8GJX
- Hall of Fame Award	- Leo Meyerson, W0GHQ
- Presidential Award	- Jerry Sevik, W2FMI, and
	- Bill Orr, W6SAI

- Distinguished Service Award - Ken Miller, K6IR

Director Troster reported on publicity efforts. He moved that approval be given for the placing of Classified Ads in *QST* and *QJ* for a one year period. Motion passed.

Constitution & By-Laws - Director Chaffee reported that the work of the committee on the latest review of the Director's Handbook and the accompanying changes to the By-Laws will be completed at this session with some minor changes to the Handbook. Director Ethel Smith, with important assistance from Directors Doty and Huntoon, did the major portion of the revision effort. The Board quickly approved the minor revisions and Director Smith delivered final copies of the Handbook before the Board adjourned. Ethel was congratulated for her dedicated work.

Scholarship Fund - President Emeritus Leland Smith stated that the QCWA Memorial Scholarship and Building Funds continued to grow despite the obviously lower interest rates. Balances as of February 28, 1994 are: Scholarship \$115,844; Building \$26,352. Only the interest is used to fund scholarships so that the fund is perpetual. QCWA members are urged to support this effort and Leland sent a special letter to all chapters requesting them to participate with contributions as well as nominations.

The Board extensively discussed the status of the Building Fund. Minutes... April 1994... page five

While the fund continues to grow, there are voices questioning if sufficient funds will ever be available or if conditions will ever permit QCWA to have its own building. There are many very difficult questions to answer. The Board decided to take no further action at this time.

(The Board reconvened on Saturday morning, April 23.)

It was moved to approve and sign a revised copy of the contract with Joe Lynch N6CL for his continued services in producing the *QCWA JOURNAL*. The Board also approved Lynch's purchase of old computer equipment and accessories presently at his office. The purchase of a Tape Drive Back-up was approved for this office.

The Board authorized the General Manager to acquire a safety deposit box in Eugene, Oregon.

The following subjects were discussed by the Board without any formal action being taken: Election ethics, Nominating Committee procedures and QCWA Logo correspondence.

The usual round of final comments took on a different ring at the meeting this time because several persons were leaving the Board. These included Directors Doty, Miligan, Smith and Stevens as well as President Dannals. It was not so much a Good Bye as it was a So Long because many of the departing members will be present at the National Convention in El Paso later this year.

The meeting was adjourned at 1:00 PM.
Respectfully submitted, John Swafford, W4HU, Secretary.

Grounding Your Yacht and Other Nautical Vehicles

By: Gordon West, WB6NOA, 2414 College Drive, Costa Mesa, CA 92626

Good news—you no longer need to lay down hundreds of feet of copper foil to achieve an adequate ground plane for marine and ham single-sideband equipment for your boat. The fully automatic antenna tuner, placed at the antenna feedpoint, will offer terrific performance with as little as 2 or 3 bonded underwater through-hulls as your ground plane system.

The modern high frequency ham or marine SSB system will operate on frequencies between 2 MHz and 29 MHz. The lower the frequency, the greater the need for a large-sized ground system. But since there is very little activity on marine 2 MHz frequencies, or on the Amateur Radio 160-meter band, no longer do you need to produce a 100 square foot ground plane as we had to do back in the old days. And back in the old days, we only had a certain amount of inductance and capacitance to work with in our matching system, so it was back then that this 100 square foot ground plane was absolutely necessary.

Things have changed. The modern microprocessor-based antenna coupler can now choose hundreds of selections of X_i and X_e to develop a good match with good efficiency to your selected underwater metallic through-hulls, or to selected bonded metals below the water line. The greater your ground plane below the water line, the higher your radiation resistance, and the greater the efficiency of your antenna system.

For sailboats with bonded underwater through-hulls, you will notice a green wire running from one through-hull to another, daisy chain all the way up and down on the inside of your hull. This is part of your corrosion control system, and also may be part of your lightning system. Bonding underwater through-hulls with a green wire is part of the A.B.Y.C. recommendations for controlling galvanic corrosion and a nearby lightning strike.

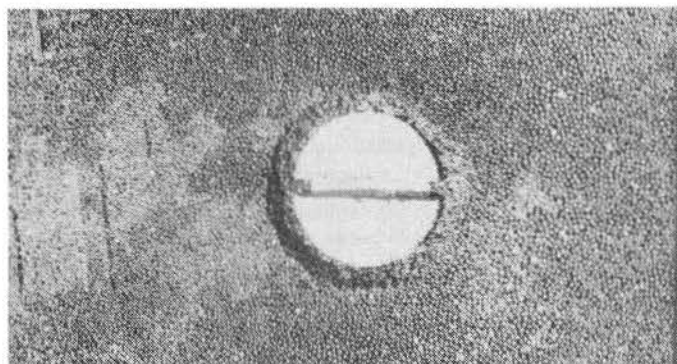
If all of your underwater metallic through-hulls are bonded, you can parallel these same through-hulls with copper ground foil to both your automatic antenna tuner and to your SSB transceiver. Wire

brush the bonded through hulls for a good clean connection to the copper foil. Foil is simply wrapped around the through hull, and tightened down with a stainless steel hose clamp. No soldering, no brazing, no welding—the stainless steel hose clamp and copper foil make for an easy connection to your bonded underwater through-hulls. Pick up as many through-hulls as you can.

I usually pick up a minimum of two or three through-hulls back aft, interconnected to my automatic antenna coupler. Sometimes the rudder post is a good spot to add additional ground foil.

If your underwater metals are not connected by a green bond wire, you may wish to go to a single through-hull that is isolated by a non-conductive hose as your first point of establishing an underwater ground connection. While a single through-hull might work as a tuner ground, you would probably want to add additional strips of copper foil inside the hull to add additional capacity to this lone ground point. Even a ground plate made of porous bronze might be in order here where all of your underwater fittings have been specifically left unbonded.

For the transceiver at the NAV station, you would run the copper foil directly off the back of the transceiver and down to a single underwater ground point. This could be a single bonded through-hull,



The advantage of porous ground plates is their ease of attachment to the hull. Photo courtesy the author.

your keel bolt, or a bronze water intake valve. And as long as you adhere to good red and black voltage techniques, you will not be troubled by the scary word “electrolysis”—stray current corrosion. “Electrolysis” occurs when you do not run adequate red and black wires, and current gets pulled through the ground system. Not good. But if you use good red and black wiring techniques to your voltage distribution panel, and that panel has good red and black wire runs down to your positive and negative posts on the battery, you should not experience “electrolysis” with your new ground system.

Remember, your ship's ground is considered a separate entity to any black wire that goes to the battery negative terminal. Although the negative battery terminal ultimately gets hooked into your ship's ground system, you should *never* use the ground system as the return side to the black battery negative lead. In fact, most SSB ham and marine transceiver specifically fuse the black power lead in case refrigeration or anchor windless equipment tries to find another return path for the black battery negative lead. If you ever pop your



black lead fuse, chances are something else is causing stray current electrolysis.

On power boats, the tuner goes up in the flying bridge, and there may or may not be a ground screen already laid on the top roof of the bridge. If there is, interconnect to this artificial ground plane, and then go to the big job of interconnection your bridge SSB radio and tuner to a ground plane that goes all the way down and contacts the sea water below. Again, green wire bonded through hulls are one great way to achieve an adequate ground plane.

No longer are one-quarter wavelength "radials" required in most installations. Your fully automatic antenna tuner will resonate your existing sea water ground system without the need of a tuned radial system.

No longer is 100 square feet of copper foil laid down on the inside of your hull required.

No longer is interconnecting every last piece of underwater metal required—or recommended. If you haphazardly start interconnecting everything together, you could accidentally hook up your aluminum trim tabs to the rest of your underwater metal, and the aluminum will begin to behave like an underwater zinc. And you know what an underwater zinc does when it's doing its thing best—it deteriorates. So don't be attaching your copper ground foil to any and every underwater metal before you check it out and make sure that it's part of your original bond system.

The reason we use copper ground foil as opposed to No. 8 green bonding wire is because wire has an adverse effect on ground currents. Wire develops inductive reactance, and this actually opposes the flow of AC ground current. We want very low X_L , so we use copper foil. The 3-mil, 3-inch copper foil available from Gordon West (714-549-5000) is your best ground conductor. It's thin, tough to tear, and works well as a ground plane as well as a grounding interconnect between your *bonded* underwater through-hulls. Remember, don't be attaching this copper foil to through-hulls that have been purposely left unbonded. And if you've not experienced any type of underwater corrosion, don't change the profile of your underwater metals at this point by grounding to them, or taking them off of a bond system.

Once you are satisfied that you have bonded to a minimum of 2 or 3 underwater through-hulls, it's time to go on the air. When you transmit, it's perfectly normal to see your anemometer and speedo jump around on voice peaks. This is because they act like field strength meters, and pick up your powerful transmitter output. You might even see your instrument panel flicker as you modulate. This is normal. And most likely, your automatic pilot *will* be effected by your SSB on transmit. When you start talking, you'll probably take on a new course, so watch out! Little can be done to remove this common problem of radio frequency interference to onboard electronics during actual key-down transmissions. Sometimes grounding to these other instruments will help. Sometimes it makes it worse. Do some experimentation.

A simple way to check whether or not you have achieved adequate ground on lower SSB channels (2 MHz, 4 MHz, and 6 MHz), or lower ham frequencies (160m, 75m, and 40m) is to do the old "Gordo overboard foil trick." Establish communications with the high seas marine operator, another ship, or another ham on high frequency. As you're communicating with this station, have your pal take the free end of the foil (where the other end is at least 20 feet in the drink) and touch it to the tuner's ground foil connection. If the tuner begins to re tune, or if the other station indicates you abruptly increased in signal strength, this is proof positive that additional

grounding is necessary. But I doubt that there will be any change. If you touch the foil to the existing ground foil, chances are the tuner will not change its setting (won't go click, click, click), nor will the other station hear any difference. You have just proved that an additional 20 or 30 feet of terrific sea water ground makes no additional improvement in your communications range, so no additional grounding is necessary inside your hull.

Do this test at the tuner—this is where there is maximum capability of seeing any change in your underwater ground performance.

Experts will disagree on how much ground is necessary for marine SSB and ham SSB. These experts are usually landlubbers, and have never been out there on the water with the new modern Kenwood TS-50, Yaesu 757, or ICOM 728. They haven't been out there with copper foil cutting into their flesh as they're trying to run it below decks. In repeated tests that I have conducted on both power boats and sailboats, a few well-chosen sea water contacts with a bonded through-hull may be all that's necessary to achieve a terrific ground plane for the modern microprocessor-based SGC Model 230 antenna tuner. But if you are using an old manual antenna tuner, all bets are off—it needs copious amounts of ground plane.

If you are using a whip, such as the fabulous Outbacker marine and ham whip, the whip is placed over a horizontal stainless steel rail, and it should work swell down to 40 meter ham and 8 MHz marine. If you want performance lower in frequency than this, interconnect the inside stanchion through-deck fitting down to a convenient underwater metallic through-hull. This will add additional ground plane to the circuit, and the Outbacker will work great. Incidentally, the Outbacker feeds directly to your transceiver with coax cable *with no antenna tuner required!*

Finally, built-in automatic antenna tuners are not designed for marine single-wire installations. Only the fully automatic microprocessor-based \$600 automatic antenna tuner is designed for this type of long-wire application. As long as that tuner is at least 15 feet separated from the transceiver, you should not have any problems of RF feedback associated with manual tuners. As long as your transceiver is fed with 6-gauge or 8-gauge wire to a healthy 12-volt source, you will not be troubled with garbled modulation. And as long as you can pick up 2 or 3 underwater metals with both the transceiver as well as the automatic antenna coupler, you are all set for working the world on marine and ham SSB.

And if you do install the porous ground plate, the efficiency of the plate is no greater than its rectangular surface area. Claims that a small ground plate is equivalent to a zillion yards of metal cannot be proved by engineers. I have found that the porous ground shoe about the size of a fireplace brick (certainly not as thick) will do as a wonderful ground point to your HF transceiver and automatic antenna coupler. While I would like to see some additional metallic ground points to the sea water or fresh water, the single ground shoe does a marvelous job on high frequency SSB.

So get started now in checking out your underwater fittings. Are they bonded together? Can you get to a couple of them easily? Are you running ground foil as opposed to round wire? The round wire is fine for bonding, but not for radio grounding.

Good luck with these simple grounding techniques, and I'll plan to work you on the airwaves soon with a loud and clear received signal I'm sure.

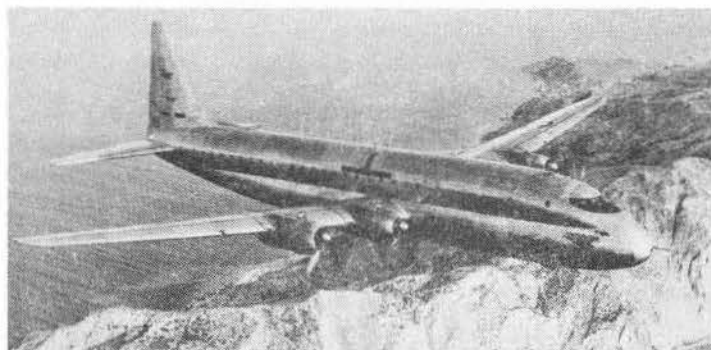
73 de Gordon West, WB6NOA, 2414 College Drive, Costa Mesa, CA 92626. Phone 714-549-5000 (10-4 PM).

A 1948 Flight With President Truman

By: D. K. "Don" Johnson, W6AAQ

Doubt there are many wandering around today who know the United States was flying more than one aircraft capable of transporting several hundred passengers in 1948. The Navy had several. Among them were five Martin "Mars" flying boats and two Lockheed "Constitutions" land planes. Early in 1948 the first group of Navy personnel were assigned to Lockheed Burbank to train in and accept delivery of the two Lockheed aircraft. I was one of the Navy crew members.

The two aircraft were originally outlined to Lockheed by Pan American Airways late in 1942 and were to be configured for turbo prop engines, which, incidentally, were still not available by 1948. Pratt and Whitney 4360 engines were installed. The unfinished aircraft were stored at Burbank during WW II. After the war they were sold to the US Navy for 20 million dollars.



A Lockheed Constitution in-flight. This plane, with the nomenclature XR60, was used by the US Navy in 1948. The author was one of the first crew members assigned to it. Photo courtesy W6AAQ.

These were the first pressurized passenger planes and the first airplanes with a four-wheel main landing gear. Each of the wheels incorporated an induction motor with the rotating field in the wheel and the armature fixed in the axle which pre-rotated the wheels to landing speed. The dimensions of the plane were as follows: length, 156 feet; height, 50 feet; wing span, 189 feet; gross weight, 92 tons; horse power, 14,000; speed, 300 mph; and cruise altitude 25,000 feet. The fuselage was large enough to contain three large railroad passenger cars with enough space left over for a Greyhound bus. The Navy nomenclature was XR60, and the side numbers were 85163 and 85164. The "X" indicated experimental. Lockheed Test Pilots during our tour were Tony LeVier and "Fish" Salmon;

The 85164 was fully configured to the original Pan Am deluxe plush passenger specifications; spacious passenger compartments, large galley, hotel suite type rest rooms, plus an ample lounge for the ladies. An enclosed spiral staircase connected the two passenger decks. A third, a sub-deck, contained aircraft supporting utilities.

The first transcontinental flight, from Moffett Field CA to Patuxent River MD on July 25, 1948, carried several thousand. A "First Day Cover" envelope was issued on that day,



Lockheed Constitution
NAVY XR60-1

BURBANK, CALIFORNIA TO WASHINGTON, D. C.



DONALD K JOHNSON
15795 Via Arroyo
San Lorenzo California

VIA AIR MAIL

On July 25, 1948 a "First Day Cover" envelope was issued to commemorate the first transcontinental flight of a Lockheed Constitution. First Day Cover courtesy W6AAQ. commemorating the 150th Anniversary commissioning of the US Frigate Constitution and the First Official Flight of the Lockheed Constitution, Navy XR60.

Arriving very late in the afternoon of the 25th, several hundred unhappy sailors, in their dress whites, were held-over for a demonstration flight to Washington National Airport. The sailors were all marched off at Washington, single file, for the newsreel cameras and were immediately reboarded for return to Pax and late chow.

On July 31, 1948 all the parachutes were carried to the lower deck and covered with a tarp. The "X" was painted out in front of the "XR60." Then we flew to Washington National Airport. President Truman arrived with practically every Military Brass and Capitol Hill "Free-Loader" within hailing distance of the White House. All promptly got aboard for a flight to the Idlewild Airport at New York City to attend the ceremony where President Truman cut the ribbon to officially open the airport. (The airport was later renamed JFK.)

Surprisingly there was very little delay in reboarding all the passengers for the return trip to Washington. As we were "turning-up," one of the WAVE orderlies came to the flight deck to report there were two extra passengers on board—she was positive they were not on the inbound flight. The crew assured her everything was OK since there were a healthy number of Secret Service personnel aboard. However, a flight deck member went back to assist the orderly to point out the suspect passengers to the Secret Service.

The young lady was absolutely correct; there were two unauthorized male passengers aboard who were swiftly escorted away in a paddy wagon. It was later learned the two men were perfectly harmless. Their hobby was to stow away on VIP flights. From later newspaper accounts, they had been quite successful. In an article the pair had listed an impressive number of VIPs they had rubbed elbows with around the world.

In questioning the WAVE, she indicated she had spotted them the instant they came up the ladder—even before her head count. “How did you spot them?” She was asked.

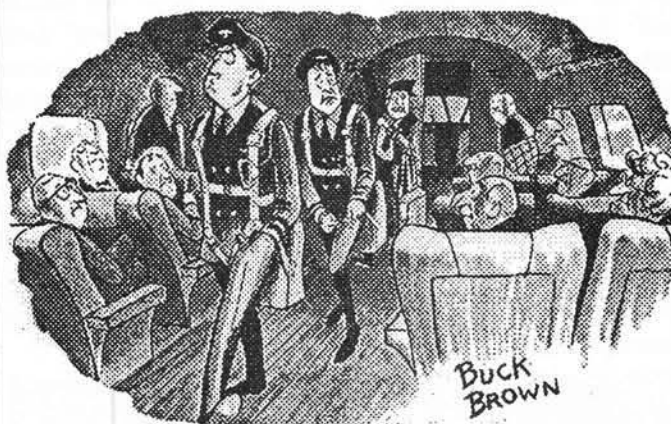
“Easily.” She continued, “They were the only two civilian passengers who were immaculately dressed.” She added, “I had noticed on the inbound flight all the civilians were very sloppy in appearance as well as poorly mannered.”

Here are a couple of interesting asides to this flight: First, on the flight to New York the number two prop governor had failed. While the President was doing his thing, inspection revealed that the governor housing had broken loose from the mounting flange. Being a long time experienced ham—and like the man says, “I never leave home without it”—I was the only crew member aboard who had a well stocked tool box. For some reason my tool box produced about six rolls of that “years-ago” sticky rubber tape. I hung by my toes in that number two engine cowling until all six rolls were exhausted and our prop governor was the size of a regulation basketball.

Second, we had a long lanky Amateur Radio operator crew member who didn’t have much to do; so in his boredom he decided to spice up the trip. He had gone below and donned a parachute and started up the rear spiral staircase intending to run forward through the passenger compartment with the chute on his back. Fortunately, or unfortunately, as the case may be, our burly Leading Chief was going down the staircase at the same time. A scuffle convinced our ham friend to confine himself in the cargo hold with the spare engines and wheels for the remainder of the flight.

The episode did not go wholly unnoticed, however. Shortly thereafter a full half-page cartoon, depicting this bit of

hilarity appeared in the New Yorker by cartoonist Buck Brown. The last time I was aboard ‘164, a framed copy of the cartoon was in the glass case with a scale model of the Frigate Constitution presented at the christening of the aircraft by actor Commander Robert Young. Young was aboard for his annual Naval Reserve training with our detachment.



This cartoon by Buck Brown first appeared in the New Yorker in 1948. It was inspired by an episode that took place during a demonstration flight of the Constitution that carried, as one of its passengers, President Harry Truman.

The day after our flight with President Truman a new governor was installed; the chutes were replaced into the passenger and flight deck compartments and the “X” was repainted in front of the “R60.”

My rubber tape? Gone!

73 de Don Johnson, W6AAQ.

QCWA Board Emphasizes Scholarships

By: Leland Smith, W5EJ, Chairman, Scholarship and Building Funds Committee.

The QCWA Board of Directors at its Spring meeting at Tyson’s Corner, Virginia, reviewed and re-emphasized the QCWA Memorial Scholarship Program. With over \$116,000 for the Fund at the time of the meeting, the Board established a goal of \$150,000 for the Fund by the Spring 1995 Board meeting.

The board also decided to reinvest the Fund in order to achieve a more stable earnings return and still retain maximum security for the principal.

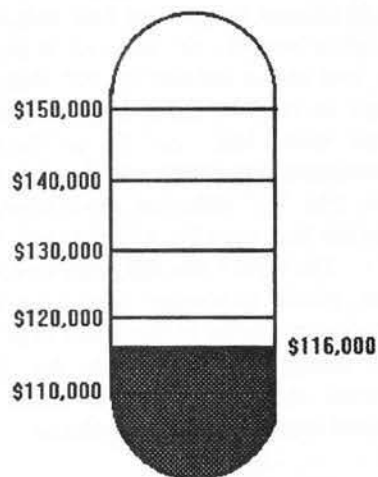
As the Fund grows, there will be more money available each year for use in awarding cash scholarships to worthy Amateur Radio operators.

QCWA Members and Chapters are again encouraged to remember their friends who become Silent Keys by making contributions to the Fund in their memory. A number of members and Chapters regularly make contributions. The Board of Directors urges more members and Chapters to support the program with regular contributions.

The special fund for a scholarship in memory of Silent Key Ted Heithecker, W5EJ, long-time QCWA General Manager, is increasing and it is hoped additional gifts will enable QCWA to establish a scholarship in his name.

All contributions to the Memorial Scholarship Fund and to the Building Fund should be mailed directly to QCWA General Manager, Jim Walsh, W7LVN, 159 East 16th Avenue, Eugene, OR 97401.

QCWA Scholarship Fund Goal



Ham's Health

By: Dr. Dub George, WA5BFF, 4100 Big Bend, Port Arthur, TX 77641, Phone numbers: Work: 409-983-5145, Home: 409-982-4442, Fax: 409-983-6519.

This month I want to talk about some of the vision problems that Amateur Radio operators with a minimum of a quarter century in the hobby may begin to experience.

Presbyopia

The most common problem is reduced visual acuity due to changes in the lens. Focusing is normally accomplished by changing the shape of the lens from round to elliptical. Shortly after age 40 the lens loses its elasticity and it becomes more difficult to focus on close-up objects. The individual may notice that he or she begins to hold reading material at a greater distance (their arms become too short). This condition, called *Presbyopia*, is easily corrected with glasses for reading or other close work. If glasses are needed to correct other visual problems such as astigmatism, then the prescription may be for a bifocal or trifocal lens that gives the option of using the different areas of the lens to focus at different distances. Usually the individual quickly adjusts to them.

Cataracts

With further advancing age the lens may become cloudy. While this clouding is usually attributed to the aging process alone it may also be hastened by injury to the eye, long-term unprotected exposure to sunlight, diabetes, medications such as steroids or genetic inheritance. It is not caused by a "film" over the eye or over-using the eyes nor does it spread from one eye to the other. It should not cause irreversible blindness.

If the clouding is mild or if it does not involve the central area of the lens no treatment is needed. Symptoms of significant clouding include a painless blurring of vision, glare or light sensitivity, frequent eyeglass prescription changes, double vision in one eye, needing brighter light to read, loss of depth perception, poor night vision and fading or yellowing of colors.

Cataract surgery needs be considered when there is enough reduction of vision to interfere with important activities of daily living. Cataracts may develop quite slowly and therefore there is really no need to rush to have the procedure done. There is also no need to wait for a cataract to "ripen" or mature before it can be removed.

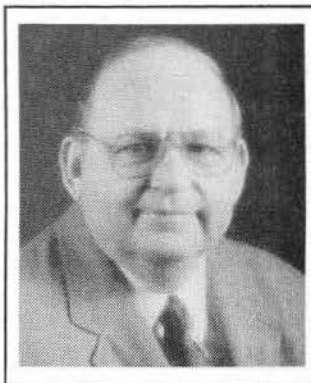
The surgical treatment has improved greatly over the past two decades. The "old" surgical treatment consisted of removal of the lens and then fitting the patient with thick "cataract lenses". The recovery period consisted of several days of absolute bed rest followed by several weeks of reduced activities.

Modern cataract surgery is an outpatient procedure. A local anesthetic coupled with mild sedation makes the operation virtually painless. Using an operating microscope an incision only 1/6 inch in length is made in the cornea and the tip of a small ultra-sonic probe is inserted into the central part of the lens. Ultra-sonic energy is used to break up the lens. The fragments are removed by suction, leaving the back (posterior) membrane of the lens to support the plastic intraocular lens (IOL) implant. The IOL is inserted in a folded state and the small incision is closed with a single stitch. Frequently no stitch is needed. This has led to the procedure being known to as the "one stitch" or "no stitch" cataract operation.

After a short stay in the outpatient recovery area the patient is ready to have someone drive him or her home. During the recovery period eye drops will be prescribed and the patient must be careful not to rub or press the eye. An eye shield is worn during sleep. Although strenuous activities should be avoided until the eye has healed, normal daily activities and moderate exercise may be resumed at once. Vision is usually improved immediately; however, full improvement comes when corrective lenses are fitted in approximately six weeks.

Even though the surgery itself is successful the patient may not see as well as he or she would like. Other problems with the eye such as macular degeneration (aging of the retina), glaucoma or diabetic damage may still limit vision after the surgery. Even with such problems present the improvement in vision gained by surgery may be worthwhile.

73 de Dr. Dub George, WA5BFF.



The 1994 Amateur Radio Mail Order Catalog and Resource Directory Published

QCWAer Dave Thompson, K4JRB, owner of Resource Solutions, has recently published the 1994 (Volume 4) edition of the *Amateur Radio Mail Order Catalog*.

In recent years the Amateur Radio related mail order business has enjoyed a boom of sorts. Dave has spent countless hours cataloging sources of mail order parts, supplies, and publications related to the Amateur Radio Hobby.

For your copy of this extensive (over 1700 listings) volume, send Dave a check for \$16.00, plus \$3.00, shipping for U.S. or \$6.00, shipping for DX, at 6050 Peachtree Pkwy, Suite 340-228, Norcross, GA 30092. You may also order toll free by calling 800-825-8684.

Amateur Radio Satellite News

By: Keith Pugh, W5IU, Vice President of Operations, AMSAT-NA.

In recent issues of this column we have talked about the "Easy Birds" and the current fleet of Amateur Radio Satellites. This column will be devoted to an old friend, AMSAT OSCAR 13 (AO-13). AO-13 is our premier high altitude satellite and continues to be the most popular "Bird" in the fleet.

Construction And Launch

Like AO-10 before, AO-13 started life as an international project. Before launch it was known as Phase 3C. Its roots start in Germany. Much of the early conceptual and electronic design started with the AMSAT-DL group headed up by Dr. Karl Meinzer, DJ4ZC. Various components came to the project from all over the world. Spacecraft construction was done in a small lab in Denver, Colorado, under the watchful eye of Jan King, W3GEY. Jan and a dedicated team spent many evenings and weekends building the space frame and installing modules and wiring harness. Just this evening, I heard Ed, W0VO, from Colorado Springs, CO, on the 75 meter AMSAT Net and recalled that Ed made most of the wiring harness for the "Bird." During its construction in Denver, many of the rank-and-file AMSAT members were able to see the "Bird" in the lab during the 1985 AMSAT-NA Space Symposium. I considered this to be a rare privilege and one that I look forward to repeating with Phase 3D during the 1994 AMSAT-NA Space Symposium in Orlando, FL.

The finishing touches were put on the "Bird" in Germany and it was launched on an Ariane 4 from Kourou, French Guiana, in June, 1988. Everything went well during the launch and the "burns" of the onboard kick motor to place it in its final orbit. Final orbit was achieved and the transponders opened for use during the Central States VHF Conference in late July, 1988. It performed well from the start with the exception of the RUDAK experiment and has led an interesting life since then. RUDAK suffered a hardware failure early on. It has been re-incarnated on AO-21.

Operations

From the beginning, AO-13 has operated very well. Initial operations were on the ever popular Mode "B"; however, Modes "J" and "L" were brought on line very soon. Mode "L" was intended to be the big "growth" mode with much more bandwidth than Mode "B". Mode "L" did prove to be popular, but it never saw the large increase in activity desired. Mode "J" which was operated simultaneously with Mode "L" proved to be more popular than planned. Both of these modes were only activated during the lowest "off-pointing" parts of the orbit due to the beamwidth of their antennas and the nature of the AO-13 Attitude Control. This limited availability and the perceived complexity of Mode "L" equipment probably were the reasons behind the limited popularity of these modes. In reality, Mode "J" was no more

complex or difficult than Mode "B" and shared the same equipment in most cases.

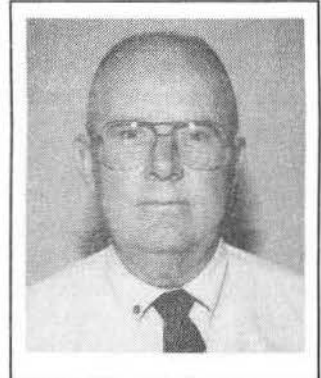
Mode "S" was a new mode on AO-13. This mode was incorporated as a experimental mode, with limited bandwidth and some special characteristics. It shared the 70 cm receiver with Mode "B" and included an "S" band transmitter developed primarily by Bill McCaa,

KØRZ. Initially, Mode "S" had some problems but they were soon overcome and the mode was scheduled on an irregular basis. Very few users ventured forth into this "new territory" probably due to a perception that it was "too difficult".

Meanwhile, most of the operations continued on Mode "B" with ever increasing usage by the DX chasers and others. Many operators earned DXCC through the Mode "B" transponder. A number of DXpeditions included satellite gear in their plans for the first time and satellite "DX Spots" started showing up on the DX Packet Clusters throughout the world.

With all of this popularity, a few operators lost sight of some of the inherent operational limitations of AO-13 that result from its orbital characteristics and its stabilization method. Periodically the satellite has to be "off-pointed" to keep the batteries healthy at the expense of communications quality. When these periods occur, the vocal few raised "quite a stink". It has taken a lot of effort on the part of James Miller, G3RUH, and others to re-educate this vocal minority on the characteristics of AO-13. The keys to being successful during these trying times are patience and understanding. Understanding should include reading James Miller's excellent article on controlling AO-13 that appeared originally in the AMSAT-NA Proceedings of the 11th Space Symposium. The article has been re-printed in The AMSAT Journal (AMSAT-NA) and Oscar News (AMSAT-UK).

Approximately one year ago, AO-13 suffered another setback. The 70 cm downlink transmitter, shared by Modes "J" and "L" died suddenly. All efforts to revive it have failed so Modes "J" and "L" are no longer options. This failure may have been a "blessing in disguise". Losing Modes "J" and "L" left more time in the busy schedule for Mode "S". Mode "S" became regularly scheduled and many people started to discover the simplicity and pleasure of operating Mode "S". Again James Miller, G3RUH, deserves a lot of the credit for popularizing Mode "S" through his excellent articles about the simplicity of Mode "S". Ed Krome, KA9LNV, has also done a lot of "Missionary Work" for Mode "S". Thanks to these pioneers and others, we are seeing a preview of future Mode "S" operations from Phase 3D. This mode and other UHF and



Microwave modes could easily become the primary modes of Phase 3D. As a matter of fact, an increasing number of operators now believe that Mode "B" will go the way of the Dinosaurs with it's overcrowded, noisy, two meter downlink.

Doomsday

In the early '90s, it became apparent to orbit watchers that the Perigee altitude of AO-13 was decaying to what appeared to be a very unsafe level. A straight extrapolation of this decay would say that AO-13 would re-enter the Earth's atmosphere and burn up in the early '90s. An Austrian Mathematician, Viktor Kudielka, OE1VKW, published a paper challenging this immediate decay and very elegantly predicted a turn-around followed by an altitude increase and an eventual second decay and de-orbit in the '96 time frame. Several of the "giants" of orbital mechanics challenged Viktor's predictions. Eventually, some of the computing horsepower at NASA under the direction of Dr. Tom Clark, W3IWI, and others did a very high fidelity simulation of AO-13's orbit taking into account low order influences of the Sun and the Moon. The results of this simulation overlaid Viktor's predictions almost exactly. Furthermore, the actual data since the early '90s has been following the predictions. It now appears that we will loose AO-13 sometime in the '96 time frame. As a by product of this research, we now know a lot more about the stability of highly elliptical orbits and the combination of factors leading to AO-13's eventual demise can be avoided on Phase 3D and other "Birds".

Summary

This brief history of AO-13 is intended to illustrate the Amateur Satellite development process and evolution. Amateur Satellites are fun to operate on, but they are more fun, in my opinion, as educational tools and as testbeds for new techniques both technical and operational. They are good teachers of human nature, orbital mechanics, electronics, spacecraft design, and other disciplines. I have personally gained much more knowledge and enjoyment from association with the Amateur Radio Satellite program and AO-13 than I have from any other part of my hobbies and to a large extent my professional career.

We are at a point in time when we can "touch" the Phase 3D project by following it's development in the Amateur Satellite press, by "on-the-air" discussions, and by attending meetings such as the AMSAT-UK Colloquium, and the AMSAT-NA Space Symposium. I have met all of the people mentioned in this report by attending these meetings and consider them to be my friends even though we have vastly different backgrounds. It's amazing how much one can learn if he will just "shut up and listen". The AMSAT-UK Colloquium will be held at the University of Surrey, Guildford, UK, from 27-31 July 1994. The AMSAT-NA Space Symposium will be held in Orlando, FL, near the Phase 3D Integration Facility, from 7-9 October 1994. I hope to hear you "on the Birds" and see you at one of the AMSAT meetings.

73 de Keith Pugh, W5IU.

Your Official QCWA Badge



Many of you have asked and now we have an official QCWA Badge for you to wear at amateur functions. It is **white with black letters** and the above is an actual size reproduction. This badge is totally engraved, no 'hot press', and so it should last a lifetime.

The order blank is printed below. It comes with a standard clip and a bolo clip.

Note that you may order it with a pocket clip at an additional cost

Bolo ties are also available.

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CQ DX

By: Chip Margelli, K7JA, DX Editor, 6652 Cerulean Ave., Garden Grove, CA 92645

I would like to take a moment to thank all of you who have taken the time to write to me with your kind comments on my first two columns. Since you have favored me with some valuable feedback, I'll take a moment to return the favor! And please keep those cards and letters coming!!!

First off, my observations regarding so-called "magnetic antennas" two columns ago prompted a lot of comments. Those of you interested in some real-world results may find my article in the May, 1994 issue of QST useful. In a nutshell, I decided to give one of these antennas a real shakedown--in the ARRL CW November Sweepstakes--and let it suffice to say that the results were well beyond my wildest dreams.

Secondly, may I say that I find everyone's comments regarding my "Adopt-a-Country" notion quite gratifying. If I've learned one thing in my travels around the world, it's that we all put our britches on one leg at a time; I'm glad to hear so much support from the field in this regard. That's what the Amateur Radio "fraternity" is all about, after all!

Remembering KH6IJ

In our sadness at hearing of the passing of one of the world's greatest DX and contest practitioners--Dr. Katashi Nose, KH6IJ--we all seem to react in the same way. . .by remembering a happy encounter in an earlier day. For a very young Chip Margelli, the encounter was a (much needed) lesson in humility!

It was in 1970 during an ARRL CW DX Contest. I had been invited up to W7RM's dream QTH to participate in a multi-operator, multi-transmitter effort. I'm sure I felt pretty smug and important over the invitation, and especially so since we were testing out a prototype of a diode-programmed memory keyer (in those days, of course, such technology was almost considered witchcraft).

Sure enough, on the first night of the contest, here was the legendary KH6IJ, humming along at about 45 words per minute, dits and dahs flowing off his keyer with the perfection for which he was renowned. "W1XYZ 5NNKW," "R KH6IJ QRZ," "W2ABC 5NNKW" etc. Well, this brash young operator in Washington state called in at about 45 WPM: "DE W7RM" and got the usual "5NNKW" reply. Figuring I'd show the old master a thing or two, I turned the speed control all the way to the right--to 99 WPM--to send my "599 WASH BK" report. "No way he'll copy that," I thought to myself.

You guessed it! Without skipping a beat, Nose came back "R KH6IJ QRZ" as if I'd been sending at 25 words per minute!!!

Finding out just how much you still have left to learn can sometimes be a painful experience. In my case, Dr. Nose simply taught by example, and I thank you for that lesson, Nose. Many happy QSOs to you, old friend.

The Dwindling Sunspot Numbers: Good News or Bad News?

Nobody who has had an HF rig on in the past six months will say anything good about the present course of the sunspot cycle. Ol' Sol is losing his acne fast, causing many of us to dust off the stamp collection or take up bird watching (I recently ran into contest master Dick Norton, N6AA at the Bolsa Chica Ecological Preserve--he was watching egrets like I was!). But don't abandon ship just because the water line seems to be encroaching!

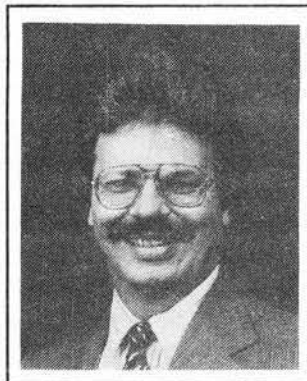
To be sure, we may not see 10- and 15-meter Long Path for another five years. And those wonderful midnight openings on the high bands in the summertime may be out of the question for now. But the slim sunspot years are my favorite times, and not because I'm a low-band hound. . .quite the contrary.

During the lean spot years, for one thing, QRM is much reduced. Besides the obvious fact that many "Fair Weather DXers" pack it in when the solar flux index goes below 100, it's also true that the bands aren't open to as many areas at once as they were a few years ago. So when there is a band opening to Central Asia, for example, you probably won't have as many people to fight in the pile-ups, and you won't have as much encroachment from DX stations in other areas, as the band will probably be dead to their QTH.

The meager ionization of the F layer also means that the high bands will generally be "long" when they do open at all. This phenomenon makes for some pretty interesting QSOs during whatever brief openings occur, as the F-layer may not support communication on a given day with any place closer than Reunion Island or Zambia. And because short hops require the heavy ionization that isn't there, you also won't be fighting as much stateside QRM. Sorry, but you'll just have to talk to your cousin Homer in Skunk Hollow, Arkansas on 40 or 80 meters.

So enjoy the bands as the Fates give them to us. There's a challenge and an opportunity to be found every day. That's why I Love DX!

73 for now de Chip Margelli, K7JA.



Measuring Coil Capacitance

By: Phil Anderson, WØXI

What component do radios and transmitters have that microprocessors and personal computer's don't? Tubes you say! Sure, that's right except for the early machines such as the giant IBM 7090 computer and the like built in the late 1960s. But, I'm talking about coils. Actually there may be a few chokes in the power supply of your PC too, but you won't find any inside the microprocessor or 486 chip!

Coils, of course, are for modern day radio amateurs, radio technicians, and crystal set enthusiasts. We use them in nearly every project. A coil isn't really a coil however! It's really a resistor and a coil in series, as shown in Figure 1, and the coil has some capacitance too. You may know that already and you may know that coils can become self-resonant, but do you know how to measure the equivalent capacitance in the coil?

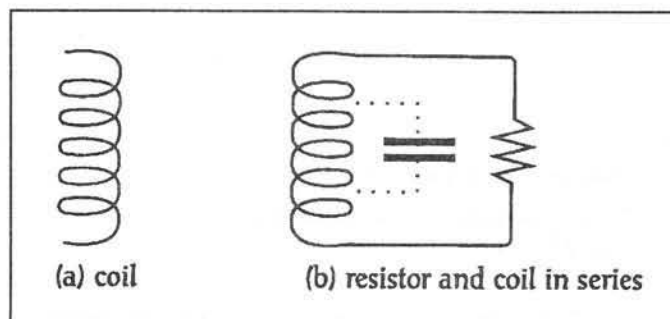


Figure 1.

Without knowing the coil capacitance, errors in calculating tuned circuit component values (e.g. the C used with the L) may creep into your next design and build project. You'll then have to resort to trial-and-error in finding the right values. It's happened to me a number of times, so, while experimenting with crystal sets, I found a procedure to measure the capacitance of the coil.

COIL CAPACITANCE

Self-capacitance of coils is unimportant at low frequencies, but becomes a factor for high frequency crystal sets. At some frequency, the main coil will be self-resonant; its inductance will form a parallel tuned circuit with its capacitance. When this happens the coil is no longer useful as an inductor!

A coil designed to be an inductance will necessarily have some capacitance distributed along the wire. There is capacitance between every inch of wire and every other inch, and between each inch of wire and ground. The amount of distributed capacitance depends on the construction of the coil; it is highest if the coil is wound in layers with turns from opposite ends of the wire lying on top of each other. Coils used for radio circuits are ordinarily designed to reduce self-capacitance. It is nearly impossible to calculate the self-capacitance of a coil but it can be readily measured.

Rule of Thumb. It proves to be a good approximation to represent the total capacitance of the coil as one capacitor across the coil leads.

To demonstrate coil capacitance, I wound a coil on a Quaker Oats box and measured its capacitance as turns of wire were added. These data are listed in Table 1.

TABLE 1: Capacitance of a 5-inch Coil

turns	10	15	20	25
self-resonant frequency (MHz)	10.3	6.5	4.7	3.4
capacitance (pf)	10	14	16	24
inductance (μ H)	21	44	72	102

The coil was constructed using no. 22 wire, 15 turns per inch (tpi). An IFR radio-frequency signal generator was used to introduce the test signal into the coil, tapped at three turns from the bottom. An oscilloscope with a ten μ fd (pf) capacitance probe was attached to the coil at the turns indicated. Measurements were taken after each batch of five turns was added to the coil. As expected the resonant frequency went down as turns were added. The capacitance figures were calculated after figuring the inductance, by formula. The capacitance listed in the table includes that of the scope probe.

What's this all mean? On the practical side, the coil is useful as an inductor only at frequencies well below self-resonance. As self-capacitance is allowed to build up, available coil inductance is reduced. This can affect set volume, selectivity, and filtering capabilities.

Rule of Thumb. For best selectivity and high loaded circuit Q, keep the coil capacitance low.

Measuring Coil Capacitance

The data in Table 1 shows the presence of self-capacitance for the coils constructed. However, the method used to obtain an estimate of the capacitance can be improved upon. We need a procedure that will allow us to make just a couple of measurements on a coil and calculate its capacitance directly. A simple equipment arrangement to do this is shown in Figure 2, and steps to take measurements are outlined below.

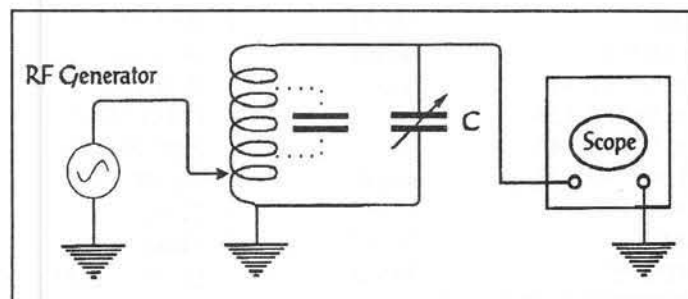


Figure 2.

To measure coil capacitance, you'll need a signal generator, a variable capacitor, and a scope or detector circuit and volt-ohm meter (VOM). The capacitor needs to have a calibrated dial. If the signal generator has good drive, a detector and VOM can be used to measure resonant peaks instead of the scope. If you try this method, we suggest a germanium diode, a 47K resistor, and .001 μ fd cap as the detector.

In order to obtain the coil capacitance you'll have to make two measurements: one at a frequency somewhat below coil self-resonance, and one at half that frequency. With the coil in parallel with the tuning cap, with the generator tapped a few turns from the bottom of the coil, and with the scope probe or detector attached to the top of the coil, follow the procedures outlined below.

1. Peak the displayed signal after setting the generator to the first frequency - say 1/2 of the self resonant frequency - by varying the tuning capacitor. Note the capacitor value (which we'll call C1).

2. Reduce the generator frequency to half that just used and again vary the tuning capacitor until the scope or detector peaks. Note the cap value again (C2).

3. Then calculate the self-capacitance of the coil using the following formula.

$$C_o = \frac{(C2 - 4 \cdot C1)}{3} \quad \text{Formula 1}$$

where:

C_o = self-capacitance, (same units as C2, C1)

C1 = tuning capacitor value at frequency 1

C2 = cap value at frequency 2 half of f1.

Formula Derivation

If you're like me, you'll want to see proof of the self-capacitance formula. A derivation is outlined below.

Let's start by examining Figure 1. Previously, we discussed taking measurements at two frequencies below coil self-resonance, one at f1, and one at f2 or half the frequency of

f1. Given the general formula for the frequency of a resonance L-C circuit, formula 2, it is clear that the capacitance at f2 must be four times that at f1 (assuming we don't change the coil).

$$f = \frac{1}{2\pi} \cdot \frac{1}{\sqrt{LC_{\text{total}}}} \quad \text{Formula 2}$$

where:

$C_{\text{total}} = C_o + C$

C_o = coil capacitance

C = external measurement capacitor.

Hence, C_{total} at f2 is four times C_{total} at f1, or

$$C1 + C_o = \frac{C2 + C_o}{4}$$

It follows then that

$$C_o = \frac{C2 - 4 \cdot C1}{3}$$

where:

C1 = external capacitance measured at f1

C2 = external capacitance measured at f2

f1 = twice f2

The above article is an excerpt from Phil Anderson's new book, THE CRYSTAL SET HANDBOOK. Phil has been an Amateur Radio operator for 40 years. Design and construction projects are his favorite part of the hobby. More recently he's been exploring the roots of radio, the crystal set. The book is available for \$10.95 plus \$2.00 shipping from the Xtal Set Society. For more information send a SASE to The Xtal Set Society, PO Box 3026 St. Louis, MO 63130.

Scholarship Fund Contributions

The following have made contributions to the Scholarship Fund.

DONOR	HONORING	DONOR	HONORING	DONOR	HONORING
KI6KJ	W5EJ	W9NZF	W5EJ	CHAPTER 108	W5EJ
W0GFQ	W5EJ	W7BQG	W5EJ	CHAPTER 53	WD4LUU
CHAPTER 41	W5EJ	W7LVN	W5EJ	CHAPTER 4 & W7PN	W5EJ
CHAPTER 150		CHAPTER 54	N5IWN	W5TJI & WB5DVA	W5IGM
CHAPTER 148		N3WW	W5EJ	ROGUE VALLEY ARC	
CHAPTER 152	KG4L	W6ISQ	W5EJ	CHAPTER 173	K1BI
CHAPTER 101		CHAPTER 85	KH6CES	CHAPTER 2	
K6CE	W5EJ	CHAPTER 85	K5LFJ	W0GFQ	
W3WPY	W5EJ	CHAPTER 41	W5NRE & W5MA	W6ISQ	W5EJ
ROGUE VALLEY ARC		K9EAT	W5EJ	CHAPTER 123	

Silent Keys

Note: "*" indicates Life Member and "^" indicates exact date of Silent Key unknown.

NAME	CALL	NO.	L	SK	U	NAME	CALL	NO.	L	SK	U
FICHTHORN, KURTZ A	N1AB	14159		1994		HUNT, JAMES W	W5TG	18245		1994	
DORSEY, CULVER R	W1FNY	18808		1994		ALATERAS, ANTHONY G	W5USO	12713		1994	^
MASON, HARRY L	W1PAA	26330		1994		DENNIS, N T	W5YB	06725		1994	
CLARK, CARLOS	W2ABD	10359		1994		BLETHEN, FRED A	W6DXV	02099	*	1994	
MACGAHAN, W H	W2ABE	00417		1994		WHEELER, HOWARD G	W6GRW	12809		1994	
LYNCH, JOHN	K2BGF	18690		1994		ALBAUGH, C H	W6KOS	11883		1994	^
FULLER, GEORGE L	W2BSH	01375		1994		VANVORST, EARL L	W6MSW	09221		1994	
DEPASQUALE, RAY H	W2DCO	01200	*	1994		DIRDEN, D S	K6OM	14221		1994	
KUCHARE, A S	W2EKO	01654		1994		PERISON, MALCOLM A	W6QBW	16517		1994	
REUTER, MICHAEL	W2EOG	09951		1994		BOSCO, EDWARD C	W6ROW	22093		1994	^
MEYER, STUART F	W2GHK	02039	*	1994		WOOD, GEORGE A	W6TOL	22684		1994	
MCCOY, J HARVEY	W2IYX	08640		1994		MC PHERSON, DONALD	W6YNR	25083		1994	
STANGEL, ARTHUR	W2JZH	03242		1994		GATES, HAROLD H	W7AYN	12300		1994	
BERSIN, NATHAN	W2MSS	06575	*	1994		JOHNSTON, ODIS D	KE7CC	19272		1994	^
KORKOW, STUART W	W2PUT	16313		1994		BUMPUS, CARLE F	K7EI	14368		1994	
GSPANN, CHARLES J	W2ZEE	10072	*	1994		ARMSTRONG, PAUL S	K7HWK	18192		1994	
KURZ, AUGUST W	W3BB	01782		1994	^	MALMSTROM, EDWARD J	W7LUP	13595		1994	
SALABES, MARTIN K	K3CSV	16688		1994	^	DODD, JACK R	K7OIR	20842		1994	
BURNS, HOWARD M JR	W3FQH	05560		1994	^	O'DONOVAN, CHARLES E	K7RWU	23767		1994	
PETTIJOHN, VIRGINIA A	W3UWT	26637		1994		GIBBS, EVERETT H	W8AQ	00574	*	1994	
WINTERMUTE, VERN	K4BG	02941	*	1994		JANDA, JOHN	W8BHH	06764		1994	^
PARTRIDGE, O B	W4BWP	19091		1994	^	UNGER, EDMUND A	W8CSL	12141		1994	^
ROMIG, PERRY L	KF4DI	18190		1994		BRONSON, HENRY S	W8ESA	01441	*	1994	
SUMNER, J PENTON	K4DM	11690		1994		CHURCHILL, FLOYD N	W8IAR	07107		1994	
HARTFORD, ROBERT L	K4IKB	08682	*	1994		HOLTER, MARVIN R	W8IFB	23562		1994	^
MOWERY, CARL D SR	K4JTT	15455		1994	^	KINCADE, GEORGE E	W8IQT	11702	*	1994	^
GEROS, WILLIAM C SR	KD4JGT	26014		1994		MC DANIEL, WAYNE S	W8KWI	07589		1994	^
TIDMORE, LAWRENCE B	K4KMQ	18064		1994	^	JACKSON, RALPH E	W8LA	02174		1994	
BECKLEY, JOHN G	KG4L	09056		1994		REICHMAN, E M	W8NBK	03499		1994	^
CLAYTON, IRENE	WD4LUU	20560		1994		BUTLER, FRED W	K8NOP	17525		1994	
SCHONHER, HOWARD L	W4RZL	02543		1994	^	CSOMOS, ANDREW J	K8QPG	17806		1994	^
BERNET, EDWIN J	WA4UPI	15732	*	1994		BROOKS, LYLE C	W8TJ	15804		1994	
FRECK, TENNYSON T	W4WL	01303	*	1994		ANDREJKO, BASIL L	K8UTE	19657		1994	
GASPARD, FOREST	W5BWZ	07151		1994		BREHM, RAYMOND P	W9AJH	10862		1994	
HANDWORK, GEORGE H	W5CNI	14240		1994		BARNUM, RALPH C	KA0MTS	17119		1994	
GREEN, EDWARD W	K5CNT	18834		1994	^	SVOBODA, CHARLES R	W0CR	12495		1994	
ISELL, KEENER R	K5CPI	18510		1994		STROHM, LEONARD C	W0GSH	16210		1994	
HAINES, ROBERT C	WF5D	22633		1994		UPTON, CLIFFORD A	W0LME	11741	*	1994	
DUNN, CHARLES S	W5GW	03297		1994		ANDREW, MELVIN L	W0LPU	15704	*	1994	
GLASS, ALAN H	N5HG	15204		1994		NELSON, EDWARD G	W0MKP	01832	*	1994	
DANBOM, M E	N5IWN	22404		1994		RENNIE, ROBERT S	VE3IR	03761	*	1994	^
STANTON, FRANK C	W5KZM	10532		1994		TYRRELL, CHARLES	VE6PV	17511	*	1994	
SKELTON, JOHN FRED	W5MA	04513		1994		SAYER, JAMES H	VP9BY	13657		1994	
MAHLER, JACK H	W5NI	10828	*	1994							
HUBERT, WARREN N	W5NRE	19223		1994							
FINLEY, CALVIN G	W5PZX	11532		1994	^						

Silent Key Remembrances

There is not a better way to remember your friends who have become Silent Keys than by a donation to the Scholarship fund in their names. Take a moment today to think of how special it would mean and then make out your check in the name of your friend. Send your check to Headquarters, attention, Scholarship Fund. It is the most fitting way of saying that final "73."



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1994 QCWA National Convention News

By: Bob Carroll, K5IE, 1994 Convention Chairman

The 1994 QCWA National Convention will be held in El Paso September 30 - October 1 at the Camino Real Paso del Norte Hotel in downtown El Paso. The Camino Real is a landmark hotel and has been completely renovated. All the rooms are suites and a special price has been negotiated to accommodate our convention attendees.

We have selected several tours for our members to attend and enjoy while visiting El Paso. Arrangements have been made to provide group tours, which include Friday Tours of Juarez and Indian Cliffs Ranch. The Juarez tour is available in two different time slots to accommodate your particular schedule. There will be refreshments served and a prize will be given to all on the tour. The Indian Cliffs Ranch Tour is a great tour of a ranch that has been converted into a world famous restaurant called The Cattleman's Steakhouse. This is one of the five best restaurants in the United States. The restaurant is approximately 30 miles east of El Paso and the cost of the tour includes the bus ride, food, all gratuities and will include a dance. You will be entertained by Charlie Russell's Western Dance Band.

The Saturday Mission Guided Tour is a tour of the four Missions established in the El Paso area more than 400 years ago by the Spanish missionaries. These include the Ysleta Mission, Ysleta del Sur Pueblo, Socorro Mission and the San Elizario Presidio Chapel. It includes a visit to the only jail Billy The Kid ever broke into and shopping at the various gift shops along the 9 mile Mission Trail. A Mexican lunch will be served at the beautiful Adobe Horseshoe Restaurant in San Elizario, the former county seat of El Paso. The tour includes the bus and lunch.

There are several other tours available, but you must make your own arrangements to suit your schedule. Probably the most spectacular of these is The Carlsbad Caverns considered to be the eighth wonder of the world. If you are planning this tour you will need a full day to complete it. The National Park is open all year and requires a good walk down into the cave. An elevator will bring you back up to the surface some 900 feet. Tours may be arranged at the Convention Bureau or any of the local tourist agencies.

Also in the immediate area are the White Sands National Monument 70 miles north. In the immediate area of Alamogordo is the National Space Museum, where there is an abundance of some space relics and information covering the entire space exploration era. From Alamogordo you can go up over 9000 feet to Cloudcroft where the temperature is in the 70's when it is over 100 in El Paso.

Another possibility is the Barrancas del Cobre. This is a trip to Chihuahua, Mexico that includes a train ride over the Mountains to Baja California. This trip requires two or three days and should be scheduled far in advance.

There are various other attractions such as several boot manufacturers. The Tony Lama boot Factory, Cowtown Boots, Justin Boots and other outlets are available and all have several outlet stores. Another interesting store is the Farah Company Factory Store located at I-10 West and Hawkins. Then you can browse at the El Paso Saddleblanket Co. which is within walking distance from the hotel. The Insights Museum is also within walking distance. The El Paso Museum of Art is downtown.

At night you can drive up the Scenic Drive for a spectacular view of El Paso and Juarez. The star on Mount Franklin is being lit every night and can be seen from the air over 100 miles away and by automobile over 50 miles distant. The Star has 459 one hundred fifty watt bulbs and is located on the south slopes of Mount Franklin. Of course the view of the star is free!

We hope you decide to come to El Paso for the National QCWA Convention and plan to spend time here and enjoy your stay. If you plan to come by RV, we have made arrangement for a special rate of \$14.00 a day at the Mission RV Park to on the east side of El Paso. The phone for reservations at the park is 1-800-447-3795.

I wish to thank the editors of the *QCWA JOURNAL* for their assistance in helping us get the message to you.

Best of 73, Robert J. Carroll, K5IE, President, Chapter 64, Chairman, 1994 QCWA Convention Committee.

QCWA Chapter 64

Announces

The 1994 QCWA National Convention

CAMINO REAL PASO DEL NORTE

El Paso, Texas

September 30-October 1, 1994



Juarez Shopping Tour

Hostesses/Guides will greet you in the hotel lobby and escort you to a waiting motor coach. The tour will begin with special "El Paso" prizes given away on each bus. Guides will tell you a bit of history of the Pass of the North plus some updated facts and figures about El Paso and Juarez. You will get to do some shopping in the famous Juarez Old City Market, where you can bargain for almost anything. The next stop will be the Old Pronaf Shopping Center, where you will be served Margaritas or soft drinks. There are many selections of quality merchandise. Sales people in these stores are bilingual to answer any questions and major credit cards are accepted. On your return to El Paso, hot finger towels and beverages will be offered on the bus. There will be two schedules available Friday. One in the AM and one in the PM.

Cattleman's Steak House/Indian Cliffs Ranch

Hostesses will greet you in the hotel lobby and escort you to a waiting motorcoach destined for the world famous Indian Cliffs Ranch, where you will be entertained to dining and dancing by the Charlie Russell Western Band. The menu includes your choice of rib-eye steak or Brisket Dinner, Ranch beans, Cole Slaw, Potato Salad, Rolls/butter, Jalapenos or Chili Strips, Coffee or tea. There will be a cash bar. All taxes and gratuities are included in the ticket.

Mission Tour

Relive the history and folklore of the oldest missions in Texas (over 400 years). Tour guides will escort your group through the Ysleta Mission, Ysleta del Sur Pueblo, Socorro Mission and the San Elizario Presidio Chapel. You will visit the only jail Billy the Kid ever broke into and browse historic adobe gift shops along the nine mile Mission Trail. A Mexican lunch will be served at the beautiful adobe Horseshoe Restaurant in San Elizario, the former county seat of El Paso. Only one tour available.

Reservations

See the reservation, registration form on the reverse of this page. Reservations for these tours are limited; so get your requests in early. Many other tours will be available; but you must make your own arrangements according to your own schedule.

More information on the convention is available in the article on the left (page 82).

1994 QCWA National Convention

El Paso, Texas

*Hosted by
El Paso Chapter 64*

September 30 - October 1, 1994

**Camino Real Paso del Norte
101 S. El Paso Street**

One hundred forty rooms reserved; cut-off date is August 30, 1994

Be sure to mention QCWA for special rates: \$75.00 plus tax single or double; 3 or more \$15.00 per person extra. Phone (915) 534-3099 or 1-800-769-4300. (These rates are good (2) days prior and (2) days after official meeting dates.) Airport to hotel transportation is complimentary.

Special Air fares via Delta Air Lines. Reference Number is XE0305. Phone 1-800-241-6760, 8:00 AM to 11:00 PM EST Daily.

Special arrangements for RV accommodations at Mission RV Park. You must mention QCWA for special rate of \$14.00 a day.

Name.....Call.....Spouse.....Call.....
Street Address.....
City.....State.....Zip.....

REGISTRATION

AMOUNT

QCWA Member	\$10.00	_____
Spouse or Guests.	\$ 2.00	_____
Note: You must register to attend the functions listed below.		
Saturday Buffet Breakfast.....	\$11.50	_____
Saturday Banquet, Breast of Chicken Madiara	\$21.00	_____
(Cocktail hour 6:00 P.M. to 7:00 P.M.)		
Friday Tour Indian Cliffs Ranch, meal, (Steak)	\$31.00	_____
(Brisket)	\$27.00	_____
Friday Juarez Guided Tour. (9 AM to 12 Noon)	\$14.00	_____
(1 P.M. to 4 P.M.)	\$14.00	_____
Saturday Mission Guided Tour.(includes lunch). Bus leaves hotel at 10:00 AM.	\$25.00	_____

TOTAL ENCLOSED _____

Make all checks payable to: **El Paso Chapter 64, QCWA**. Mail this form to: Treasurer, Manuel R. Gonzalez, W2BFI, 6369 Monarch, El Paso, TX 79912. For more information: Telephone 915-584-2326.

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This form for use by all U.S. Applicants
for membership in QCWA
Effective 10/1/93

For Office Use Only

Membership No. _____

Date _____

First Licensed, Year _____

Deposit Record _____

Have you been previously enrolled in QCWA ? _____

I, _____, _____

(Print Name Clearly)

Present Call _____

having been licensed as an amateur 25 or more years ago and presently holding the call listed above (it is not necessary to have been licensed the entire 25 years) hereby apply for membership in QCWA.. I understand that proof of the original date of licensing is required. My complete mailing address is :

Street Number and Name _____

City _____

State _____

Zip Code _____

I will keep QCWA Headquarters advised of changes in my address and/or call sign. My first Amateur license was issued _____ Other calls held _____

I wish to become affiliated with QCWA Chapter _____

Date of Birth _____ Birthplace _____

Present occupation / business _____

If retired, what was major life work ? _____

Other organizations you belong to _____

Your Signature _____

SCHEDULE OF MEMBERSHIP FEES

Select one of the following plans

Members

Family

QCWA Dues for a one-year period

\$15.00

QCWA Dues for a two-year period

\$25.00

QCWA Dues for a three-year period

\$35.00

12.00

QCWA Life Membership

\$225.00

90.00

Payable in 3 equal installments

of \$80.00 each, in a one-year period

\$240.00

105.00
(3 pay of \$35.00)

Initial registration fee, all new members \$3.00

Gold membership pins are available, your call engraved, no year tags. Check fastener.

Tie-tac _____, Screw button _____, Safety pin _____ \$10.00 each

Year tag pins, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70 or 75 tie-tac only \$15.00 each

Proposed by _____, Call _____, No. _____

Total

Member Supplies

Order Blank

QCWA Lapel pins are gold plated, with call engraved.

Two types are available.

- No year tags. Choose tie-tack, safety-pin, or screw type.

Plain pins (no year), each \$10.00

- With year tags (clutch-type only). Specify year—25, 30, 35, 40, 45, 50, 55, 60, 65, 70, or 75.

Year pins, each

(as of March 10, 1994) \$15.00

QCWA Life Member pin \$ 5.00

QCWA Embroidered emblem \$ 5.00

270 QCWA Red stamps (regular) \$ 2.50

270 QCWA Gold stamps (Life) \$ 2.50

240 QCWA Yellow Stamps (50-yr) \$ 2.50

QCWA Logo on rubber stamp \$ 6.50

QCWA Cap with Logo \$ 5.00

QCWA Chapter Banner \$200.00

QCWA Decals \$ 1.00

Sweatshirts and T-shirts (Please call to order)

QCWA QSL Cards (Please call to order)

Sorry, vests are no longer available.

_____ \$ _____

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_____ \$ _____

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Total \$ _____

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No. and Street _____

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Certificates

MEMBERSHIP CERTIFICATES numbered in serial order are issued to each member. Numbers are not re-issued except to the same member to whom they were first issued.

QCWA GOLD CERTIFICATES celebrate the 50th anniversary of licensing. Issued without charge to eligible members upon proof of year of first license.

GOLDEN CERTIFICATES are issued in five year increments—55, 60, 65, 70, 75 year Certificates free of charge to eligible members.

50-YEAR CONTINUOUS LICENSING Gold certificate available to eligible members. Requires submission of proof of continuous licensing. There is a \$5.00 fee. Applications available from QCWA Headquarters.

QCWA CENTURY CLUB CERTIFICATE is issued to QCWA members whose age, when added to their number of years as a QCWA member totals 100 or more. No charge for the Certificate.

MERITORIOUS AWARD is issued by Headquarters, upon request of any active QCWA Chapter. One such award is authorized for each Chapter each year. The award may be given to recognize unusual dedication to QCWA or Amateur Radio. No charge for the award.

Operating Awards

QCWA Operating Award Certificates are issued to QCWA members by the activities manager. Proof of eligibility is required.

QCWA WORKED 50 STATES awards are issued to QCWA members who have contacted members in each state of the Union.

QCWA WORKED 100 MEMBERS awards are issued to QCWA members who have contacted at least 100 QCWA members.

QCWA WORKED 60 CHAPTERS awards are issued to QCWA members who have contacted members of 60 chapters.

QCWA WORKED 500 MEMBERS awards are issued to QCWA members who have contacted 500 QCWA members.

In addition, plaques are awarded to the highest scoring members for both phone and CW QSO Parties. Runners-up receive certificates.

Chapters On The Air

NR	NAME	DAY	TIME	NCS	FREQ	NR	NAME	DAY	TIME	NCS	FREQ
1	CLEVELAND	WED	2000L	W8NZD	146.88	87	EVERGREEN	SUN	0700L		3985
2	CHICAGO AREA	1THU	2130L	W9MOL	147.15	89	PALMETTO STATE	SUN	1700L	N4LS	3695
4	NORTHWEST	SUN	1630Z	W7PN	3655	89	PALMETTO STATE	SAT	0900L	W4DNR	3927
4	NORTHWEST	SUN	2000Z	W7FNC	3952	90	RAZORBACK	SUN	1300L	W5MYZ	7227
4	NORTHWEST	SUN	2300Z	W7AZI	3952	91	VIC CLARK	SUN	0900L	K4JAP	146.79
5	DELAWARE VALLEY	SUN	1500Z	W2HX	3917	92	NORTHERN LIGHTS	SUN	2000L		146.97
6	PITTSBURGH	SUN	1330Z	W8CSU	147.63	92	NORTHERN LIGHTS	THU	1900L		3980
7	SOUTHERN CALIFORNIA	SUN	0900L	K6BA	3917	95	EASTERN NEW YORK	SUN	1130L		3900
7	SOUTHERN CALIFORNIA	SUN	1100L	K6BA	3695	96	GATEWAY	SAT	1600Z	W2KGI	3933
7	SOUTHERN CALIFORNIA	SUN	1000L	W6ZRZ	146.805	102	DAKOTA	SUN	1300Z	W0HOJ	3889
8	UPPER MIDWEST	SAT	0800L	W0KHG	3877	104	TREASURE STATE	SAT	0900L		3938
9	SOUTHWEST OHIO	SUN	1330L	W8DWT	3987	106	GERMAN	MON	1700Z	DL9AR	3663
10	MICHIGAN	SUN	1200Z	varies	3903	106	GERMAN	TUE	1730Z	DJ2ZB	3555
11	NORTHERN CALIFORNIA	SUN	0930L	WA6AFT	3907	107	CENTRAL FLORIDA	WED	1230L		14245
11	NORTHERN CALIFORNIA	SAT	1000L	W6HHN	146.85	107	CENTRAL FLORIDA	SAT	0900L	W4LHP	7243
12	SOUTHEAST FLORIDA	WED	1230L		146.76	108	BEAVER STATE	WED	0800L	KM7T	3908
14	SAN DIEGO	WED	0400Z	K6QM	145.52	109	BATON ROUGE	SUN	0830L	W5URR	3905
15	TULSA	SUN	0645L	W5FUR	3830	109	BATON ROUGE	SUN	2000L	W5URR	146.19
15	TULSA	SUN	0930L	W5DFU	7157	110	KANSAS	SAT	0730L		3920
16	ARIZONA	SUN	0700L	W7ER	3890	112	YANKEE	SUN	0830L		3902
19	MISSOURI	WED	1900L	N0AQH	147.15	114	NORTH TEXAS	SAT	1430Z	WB5PHM	3943
20	BALTIMORE	MON	2100L	WA4GHU	147.285	117	APPLESEED	SUN	2030L	W8JYY	147.36
21	CANTON OHIO	THU	1930L	K8UDO	146.79	118	COASTAL CAROLINAS	MON	2000L	W4EHF	146.28
25	NEBRASKA	SAT	0830L	W0EUT	3983.5	120	QCWW	TUE	1900Z	K4KUJ	14295
27	HOUSTON	THU	2000L	W5CCD	3866	122	LAKE ERIE TRI-STATE	SUN	0930L	W3QPP	3915
28	CENTRAL NEW YORK	SUN	1030L	varies	3917	123	LEE DE FOREST	SAT	0730L	K0DBW	3885
30	WEST VIRGINIA	SUN	1500L	W8CCR	3865	126	PIEDMONT	SUN	0845L		3935
31	READING	MON	2100L	W3BN	146.91	128	PELICAN	MWF	1600L	K9BSL	145.29
32	GATOR	SAT	0900L	varies	145.29	128	PELICAN	SAT	1000L	K9BSL	145.29
33	GUNDERSON PA-JERSEY	DAILY	2000L	W3TI	3982	130	INLAND EMPIRE	FRI	1600L	AA6J	3862
35	MID-CONTINENT	THU	2030L	W0WHK	146.37	130	INLAND EMPIRE	SAT	0800L	AA6J	3862
36	NORTHWEST INDIANA	4WED	1900L	W9BUN	147.495	131	GULF COAST	TUE	0900L	WF4V	28750
37	HARRISBURG	WED	2100L	K3IUY	145.12	134	PINE TREE	SUN	1930Z		3942
38	SAN ANTONIO	SUN	2030L	W5HRF	28650	135	MID-MICHIGAN	TUE	2000L		146.70
41	DALLAS	SUN	0715L	varies	3835	138	CENTRAL NEW JERSEY	TUE	2200L	W2DME	147.045
44	HOOVER DAM	MON	2000L	W9RU	145.39	140	WYOMING	SAT	1500Z	W7MZW	3923
45	CITRUS	TUE	1930L	WB4DRF	147.225	141	HI-PLAINS	SAT	0900L		3933
46	FOUNDER'S	SUN	0915L	W2DP	3917	143	NORTH COLORADO	SUN	0830L		145.115
46	FOUNDER'S	THU	2030L	W2AUF	147.36	146	TWIN STATE	SUN	0830L	WA1NBI	3898
48	TREASURE COAST	DLY	1500Z		7153	149	NUTMEG	SUN	1630Z		3923
49	ATLANTA	SAT	0900L	K4VN	3855	150	DEL-MD-VA	SUN	0900L	K3PFW	146.28
49	ATLANTA	WED	2000L	varies	145.41	151	WILD ROSE	MON	2000L		3747
51	TEX-LA GLDN TRIANGLE	MON	1830L	W5MSX	146.70	152	ROYAL PALM	DLY	1800Z	W4LZV	3910
52	MISSISSIPPI GULF COAST	THU	2030L		147.225	152	ROYAL PALM	TU-TH	1830Z	W4LZV	14180
54	TYLER	SUN	0800L	W5CNO	3835	154	LEO MEYERSON	THUR	1830L	W9VKC	145.480
54	TYLER	MON	1900L	W5RRM	28.150	157	PONY EXPRESS	SUN	0830L	W0GGP	3955
54	TYLER	MON	1930L	W5RRM	28.650	160	UTAH	SAT	1730Z	W7FVM	7272
55	WISCONSIN	SUN	1430Z		3985	162	SOUTHEAST WISCONSIN	THU	0300Z		147.27
58	COLORADO	SUN	0900L	W0WSK	3905	164	BIG BEAR LAKE	SUN	1900L	WA6NLG	147.33
58	COLORADO	SUN	0930L	varies	146.67	164	BIG BEAR LAKE	SUN	1900L		224.02
60	EAST TENNESSEE	SAT	0900L	AA4WX	7233	165	YORK COUNTY PA	THU	0200Z	W3AXC	146.97
61	DETROIT METRO	SUN	0800L	W8IHX	3663	166	COLONIAL	WED	1400L		147.21
62	SUWANNEE	SAT	0900L	W4PFJ	3940	167	GOLD COAST OF CALIF	WED	1930L	KI6YN	147.885
63	CENTRAL OKLAHOMA	SUN	0800L	varies	3855	172	NEW ORLEANS	TUE	1900L		146.61
63	CENTRAL OKLAHOMA	THU	1900L	W5HXL	145.41	173	GOLDEN TRIANGLE	TUE	1930L		147.255
64	EL PASO	SAT	1530Z	varies	3933	174	WISCONSIN BADGER	SUN	1600L		146.82
65	NIAGARA FRONTIER	SUN	1330L	W2NW	3900	181	HUDSON VALLEY	SUN	0815L	W2OZA	3917
70	NATIONAL CAPITAL	THU	2000L		147.03	181	HUDSON VALLEY	TUE	2030L	KF2AC	147.06
73	SOUTHERN ONTARIO	SUN	0900L	VE3AGS	3773	183	PIONEER	SUN	1030L	W1ALL	3923
73	SOUTHERN ONTARIO	SUN	1300L	VE3MO	7088	184	BAY AREA	SUN	1830L		146.64
75	CENTRAL CALIF COAST	SAT	0800L		3917	185	HIGH DESERT	SUN	1900L		147.33
76	BLUE RIDGE	SAT	1300L		7180	185	HIGH DESERT	SAT	0800L		3862
77	NORTHERN NEW JERSEY	SUN	1300L	W2OJW	3917	187	GOLDEN ISLES	WED	1900L		3920
77	NORTHERN NEW JERSEY	THU	2000L		147.285						
79	SUNFLOWER	WED	2100L		146.82						
81	LONG ISLAND QCWA	SUN	1130L	varies	3917						
81	LONG ISLAND QCWA	FRI	2030L	K2YAW	147.33						
84	FLORALA	MON	1930L	KF4BU	146.28						
85	ARK-LA-TEX	MON	0100Z	K5LFJ	146.67						

NATIONAL AND REGIONAL NETS

QCWA SSB	SUN	2000Z	varies	14347
QCWA CW	WED	2000E	varies	7035

Silver Belles

By: Carol King, K5CPZ, P. O. Box 73, Oklahoma City, OK 73101

This issue's article will feature the First Lady of QCWA. Helen Hargreaves Cloutier Schmock, W8GJX, an Advance Class licensee, is the first lady to join QCWA and the first lady to become a member of QCWA's Century Club. With 65 exciting years of Amateur Radio experience and a membership in QCWA since 1954, Helen truly deserves a great deal of recognition.

An author of 17 books and a master of 17 careers, this gifted YL has a remarkable life story. Condensing her many experiences in Amateur Radio, her adventures, her travels, and her anecdotes into the space allotted is quite a challenge. Therefore, let's just start at the beginning, cover as much material as possible, and work our way through 85 years of her life to the present.

Helen was born in Manistique, Michigan, a typical small town in the upper peninsula of the state, on March 17, 1909. She resided in Manistique until she finished high school.

Her father, who came to America from England with his family, was superintendent of the Manistique & Lake Superior Railroad. He also owned the local theater and when Helen was in school, he became active in local politics. After he retired from the railroad, he became an Amateur Radio operator, earning the call sign W8ZKR.

Helen's mother sold tickets at the theater, enjoyed gourmet cooking, showed Toy Pomeranian dogs, and provided room and board for female teachers. Later, when Helen was around 15, her mother owned and operated a beauty shop in their home.

Helen, a rather precocious young lady, began piano lessons at 4½ years of age. Soon she was reading music quite well, playing by ear, and providing music for her church.

As an only child, she engaged in activities that would please her dad, along with participating in more feminine pastimes, such as music lessons to please her mother. As a result, she became quite proficient with guns under her dad's instructions. She enjoyed attending major league baseball games, hunting, fishing, and roaming the woods with her dad.

Since Helen's father worked for the railroad, he was able to procure unlimited travel passes for the family, thereby enabling Helen and her mother to make frequent summer trips to visit relatives.

When Helen would have occasion to go to the train depot in Manistique, her favorite activity was to look through the window of the radio room. She was always impressed by those bluish-purple sparks which she was told "meant something;" she hoped that she would eventually be able to decode those messages.

She recalls a hunting experience with her father when she was a teenager. She and her dad decided one day to go out and hunt partridge. Her dad ventured further into the woods while she remained along the railroad tracks. In the middle of the tracks she saw this big, beautiful rabbit. The two of them looked at each other and because the rabbit looked so beautiful to her, she could not shoot it. When her dad returned, she told him about the pretty rabbit and he asked her why she didn't shoot it. Somewhat abashed, she informed him that the purpose of their excursion was to hunt partridge. To say the least, her dad never let her live that one down.

This story gave her the idea for the title of her most recent book, her autobiography, *I Never Shot a Rabbit*, which was

published in 1991. From all appearances, Helen has done nearly everything else.

At 14 years of age, Helen became quite an entrepreneur. Her first job was playing the organ for the silent movies at the theater during the week. On Saturday evenings she played the piano for a local dance band. Later, she became a beautician and helped her mother in the beauty shop after school.

During the summers she took organ lessons from well-known organists in the Chicago area.

This enterprising YL still found time for a social life. She knew all the popular dances. Preferring to date guys who were good dancers, she had her "dance dates" on Friday evenings.

One exception to her dating requirement was a non-dancer who was interested in Amateur Radio. They used to sit in his bedroom with the door open, of course, in front of the short-wave receiver, headphones on, listening to Admiral Byrd at the South Pole. Everything they copied was in CW. In order for her to copy along, she learned the code by studying a Girl Scout manual via the dot-dash method. According to Helen, this exposure to Amateur Radio had quite an impact upon her life.

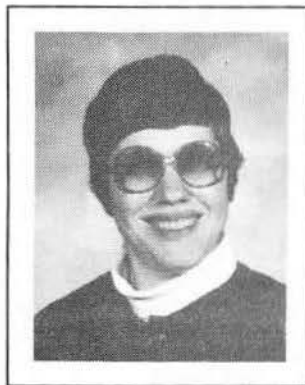
Have you begun to wonder when this YL studied during high school? You might be interested to know that during her supervised study time at school, she and her CW date, Don, would write notes in Morse code and sail them across the room to each other. The notes, no doubt, pertained to their school work.

She enjoyed chewing gum during class in high school. Her final deterrent to this forbidden activity occurred one day when she was required to stay after school and mop the main hall.

School is much different in the 1990s from the way it was in the mid 1920s. To explain the way in which some schools have progressed, a gum machine is located in the main corridor of the school where your columnist works. The profit from this machine goes into the student council fund. Although some students can be a bit annoying with their gum, this activity is tolerated. We would rather have students bring gum to class as opposed to having students bring guns to class.

When Helen graduated from high school, she went to work as a beautician in Frankfort, Michigan. She rented a room from a person who was training young men to be radio operators in his radio school. When these students were ready for their FCC commercial radio exams and passed them, they could be radio operators for the Ann Arbor car ferries on the Great Lakes.

Helen decided to enter the night school classes. She took the Amateur Radio license exam and received the call W9GJX on May 23, 1929. According to Helen, Amateur Radio changed her life pattern dramatically and she has always been thankful for the opportunities she has received because of her radio knowledge.



Helen M. Hargreaves,
127 Arbutus Ave.,
Manistique, Mich.

DEPARTMENT OF COMMERCE
RADIO DIVISION

2022 Engineering Bldg.,
Chicago, Ill.
127 ARBUTUS AVE.
MANISTIQUE, MICHIGAN
MAY 23 1929
19 35
You are hereby notified that you passed in your examination for license as radio operator, class: Code speed: words per min: Percentage: 100
If you have passed you will find your license enclosed herewith and will receive your call letters and station license.
Respectfully,
18
Acting U. S. Commissioner of Radio.

Here is a copy of the notice that the DOC sent Helen indicating that she passed her Amateur Radio license examination on May 23, 1929. Copy courtesy W8GJX.

Incidentally, the upper peninsula of Michigan was in the ninth call district at that time. Later she became W8GJX when this geographic area became part of the eighth call district.

When she finished radio school, Helen moved back to Manistique and helped her mother in the beauty shop. She and her dad built her first station which consisted of a 15-watt Hartley transmitter and a Silver Marshall receiver. She spoke very proudly of the way in which she wound coils and she built her station on a bread board. Local hams helped with her first antenna and her first DX was on 40 meters with a station in Belgium.

A few months after Helen returned home, a beautician who lived about 30 miles from Manistique needed an operator to fill-in for her while she went on vacation. Helen agreed to take this job. While Helen was receiving her orientation to this beauty shop, she was introduced to a charming young man named Jack Cloutier. That afternoon he took her to lunch and they dated steadily while she was helping with the beauty shop.

When Helen returned to Manistique, she and Jack continued dating. Although Jack was not a ham, he supported Helen's hobby.

While they were dating, Jack was invited to celebrate Christmas with the family. Helen's Christmas present from him, much to her surprise and delight, was a storage battery. She just happened to mention one day prior to Christmas that one of her storage batteries was going soft, so he thought this gift would be appropriate for a lady who had everything. Included in this package was a note asking when he could buy her a diamond.

She and Jack were married in 1931 and their marriage lasted for 28 years. After their wedding, they lived in Escanaba, Michigan, where Jack worked for the railroad.

Shortly after they were married, Helen decided to try her mother's delicious homemade bread recipe. In order to keep an afternoon schedule with a ham in Florida, she started her bread project very early that morning. Because this recipe was designed to produce a big batch of bread, she was planning to give some of the loaves to local friends. She does not remember how much flour she used but she had a big dishpan (the old fashioned kind) and made the bread in it. She never did figure out what caused it, but her yeast did not work like it should. She had a big Kalamazoo range with a big oven and a big warming oven. She put the bread in the warmer and waited for it to rise. By noon nothing happened. She gave the bread an additional hour but again, nothing happened. She had followed her mom's recipe to the letter.

Disappointed, disgusted, and perplexed about the reason the yeast did not work as she thought it should, she dumped the

mixture into the large garbage pail out by the corner of the garage, put the cover on, and decided to forget about making the bread until her mom could show her how it should be made.

She was able to keep her sked. After she finished, her admirers kept calling so she had an enjoyable afternoon on the air which helped her forget her morning's bread disaster.

Later that afternoon, around 3:30 or so she went outside to get the mail. She happened to glance over toward the garbage can and could hardly believe what she saw. That big five-gallon garbage lid was five inches in the air and supporting it was a big white blob! That yeast had finally worked in the hot sun which enabled her to have a beautiful batch of white bread in the garbage container. Eventually she became a gourmet cook and had a cooking show on NBC Radio.

During the decade of the 1930s she worked as a telegrapher; took care of her two sons, Jack and Chuck; owned and operated a beauty shop. Because her work demanded a good bit of her time, she had a maid who helped take care of the children and the house.

As an A1 CW operator, she served in the Signal Corps as an Army-Air Force radio code instructor at the base in Escanaba during W.W.II. She was soon given the nickname of "Teach" and when her students would contact her or drop her a line, they would almost always refer to her by this nickname.

During W.W.II, as we know, Amateur Radio operation was silenced. Nevertheless, Helen and her father kept morning schedules on 10-meter ground wave, running extremely low power. They did not use their call signs and they felt that no harm would exist as a result of their morning chats with such low power.

One morning a rather interesting event occurred, however. While Helen and her father were in QSO, two men appeared at his front door and asked Helen's mother if an Amateur Radio operator lived there.

She stated proudly that her husband was an Amateur Radio operator and that he was talking with his daughter right then, which was an important highlight of his life. She went on to explain how they talked each day on the radio. She then asked if they wanted her to interrupt him, but they said they would wait until he finished. She invited the two men in and visited with them until Helen's father completed the sked.

After the sked, Helen's father joined them and asked how he might be of help. To his surprise, they explained that they were from the FCC monitoring station and asked him to discontinue his schedules with Helen.

The men then showed Helen's father the direction finding equipment and how they tracked his signal. He assured them that he was a conscientious, law-abiding citizen, and he would definitely cease his skeds with Helen for the duration of the war. When the two men got ready to leave, they asked her father to be sure to tell Helen "Hi" for them.

Helen's father immediately called her to tell her about the two visitors. She had been apprehensive that this type of event might occur. They resumed their schedules after the war.

From 1946 to 1952 she taught dancing to the young people in town, ran her beauty shop, spent time with her family, and worked on her creative writing after the rest of the family had gone to bed. One of Helen's students danced professionally and was in the Broadway musical *Oklahoma*.

Her experience on the air gave her the inspiration to write her first book in 1951. *Sim Barton, Girl Radio Operator* was published in 1952. This book was primarily designed for teenagers.

Helen feels that her greatest success at writing was her *Mournful Mouse* series of children's books. The series, written and illustrated by her, taught lessons in life. It was about a mouse that always seemed to be crying and sad. Her *Mournful Mouse* books presented her with many opportunities for television appearances in Michigan.

In 1952 Helen joined the staff of the *Escanaba Daily Press* as a newspaper reporter. Because she had received training in photography, they also relied on her expertise in that area.

In 1954 she went to work for NBC affiliated radio station WESK, in Escanaba. In addition to other duties, she was a news reporter and an announcer. She also had a very popular show for ladies. One day she even helped keep the station on the air by donating a 250TH final from her BC-610 transmitter when the station's final tube, also a 250TH, went soft.

During the late 1950s she worked as a librarian for the State of Michigan libraries. Working as a librarian gave her great pleasure because of her desire to write and because of her love for books.

One of her library jobs was located some distance from Escanaba. She went home on weekends. During the evenings of the work week she began reading rather racy paperback books just for fun and decided to write from the male point of view. She wrote under the pseudonym of Steve Bell. Steve Bell's books brought quick cash, immediate publisher acceptance, and several good stories.

In 1960 she accepted a position as a technical librarian for Motorola in Chicago. During the evenings she took scuba diving and art lessons.

In 1962 her book, *Isle Royale Calling* was published. This book is permanently in the Michigan historical section of the state libraries and the book is on the list of the tapes for the blind. Many years of research went into this book.

One very important morning ritual of Helen's that must be mentioned is that she begins each day by working her many Amateur Radio friends. She has engaged in that activity since she was licensed and you will discover how these morning QSOs led to a very interesting chain of events.

In 1962 while she was still working for Motorola she received a telephone call from John Schmock, W8VHQ, whom she had talked with and, along with his wife attended hamfests over the years. John informed Helen that his wife had recently passed away. She had been ill for several years and had become bedridden. John was very devoted to her and took excellent care of her until her death.

John, who worked in Ludington, Michigan, visited Helen on weekends. For all of you romanticists, here is a little food for thought. You might be interested to know that one of Helen's favorite culinary delights consists of pancakes with ice cream and maple syrup on top. She has this meal quite frequently for breakfast but she says that it is good just about any time. She and John ate this cuisine frequently. The pancakes with the ice cream and syrup on top must have provided "sweet success" for their romance.

She and John kept nightly phone skeds on 40 meters during the week. Soon they gathered quite a group of listeners who became their cheering section. At the end of each QSO some of the hams would give Helen little "good night" kisses over the

microphone or say such things as "Good night, Sweetie Pie." or "Have sweet dreams."

John and Helen were married in June of 1962. According to Helen, this marriage was made in heaven.

They lived in Ludington, Michigan where John was working as a plant supervisor for The Foliage Company. She enjoyed a life of leisure, giving her plenty of time for her artwork.

Although she did not need to work, she taught high school art and was the school librarian for seven years. She enjoyed her teaching assignments very, very much and she had a great rapport with her students.

The last Amateur Radio gathering that she and John attended was the QCWA convention in Chicago in 1979. Visiting with old friends, making new friends, and listening to Leo Meyerson, W0GFQ, play the organ for the sing-along were her highlights of the convention.

John became a Silent Key in 1982.



The multi-talented Helen, W8GJX, designed her own QSL card. Have you received one of them? Card courtesy W8GJX.

In 1987 at the QCWA convention in San Diego, she was inducted into the QCWA Century Club. One of her highlights was winning the QLF (sending Morse code with one's left foot) contest.

At the age of 79, Helen was awarded a bronze plaque for the Michigan Amateur Radio Operator Lady of the Year. The presentation was made in Cadillac, Michigan and she indeed deserved this award.

Helen's educational background includes college courses in journalism and creative writing from Marquette College. She obtained a BS degree in library science from UCLA. She has both BA and MA degrees in art from Central Michigan University where she also obtained her teacher certification.

Helen currently resides in Manistee, Michigan, where she lives in a top floor apartment. She still maintains her Amateur Radio activities, her artwork, and her musical endeavors. She calls her living room "her museum."

Her station, which is located in her living room, consists of a Ten-Tec Triton IV, a Vibroplex bug, a microphone, and an ICOM 2-meter transceiver. For HF, she uses an all-band Hustler vertical antenna, which is about 95 feet high, and her 2-meter antenna is a J-pole. She stated that neither TVI nor any other interference to apartment dwellers has presented a problem because she has everything well shielded along with a good ground system. By the way, she has worn out three bugs in her Amateur Radio career.

She has an extremely long list of Amateur Radio affiliations. She has devoted many hours to traffic handling and almost every aspect of Amateur Radio that one could imagine.

Because of all of your accomplishments, your great sense of humor, and your love for Amateur Radio as well as QCWA, you are indeed, First Lady, one of Amateur Radio's Golden Girls.

Chapter Reports

Please note: Chapter Reports are listed in numerical order.

CHAPTER 1, CLEVELAND: Our spring luncheon-meeting was held as scheduled on Saturday, April 16, Noon. A very special feature was arranged by our vice-chairman, Andy Doles, W8UDG. It was a live K-9 demonstration from the Shaker Heights Police Department. Corporal Tim Keck, and his dog, Argus, performed to the delight of the guests. Corporal Keck also answered all the questions and remarks during the demonstration. It testified to the lively interest of the participating Chapter 1 hams and their spouses as well as their friends.

Then our new prexy, Bernie Hinrichsen, W2NTB, conducted a brief meeting and helped in the distribution of door prizes. They were graciously provided by Cleveland Electric Illuminating Company through our former chairman, John Misic, W8VRJ, and in addition by Cleveland Chapter 1.

Our next luncheon-meeting will be held on July 23 at the usual place and time. Reservations are not required but preferably can be made through Andy, W8UDG, at 216-468-408.

It is our pleasure to announce that Henry Schultz, W13U, of Erie, PA, has joined Cleveland Chapter 1. Our chapter now boasts of members from three states and a foreign country. Everyone is welcomed to join the most active and prestigious chapter in the QCWA> Chapter dues are \$6.00 and should be sent to John Brant, W8WAB, the treasurer. Membership in QCWA is required. So first request an application from the membership committeeman, Rocky S. Zimmerman, W8UYN, 6628 Balsam Rd., Bedford Hts., OH 44146, phone 216-439-1662.

New QCWA members: Donald Head, K8NCZ; John Petkac, K8NMY; Curtis Gregg, WA8RHW; and Edward Grossman, KC7VO. Welcome to the club, OMs.

Treasurer John Brant, W8WAB, designed and manufactures our QCWA Chapter 1 badge. Members wear it at all of our luncheon-meetings, hamfests, and public doings. We are proud of QCWA and show it!

Congratulations, Fred Doob, AA8FQ, QCWA and chapter member, for his marathon ventures in the New York City as well as the Los Angeles Marathons. Fred does his jogging with his trusty handheld, contacting hams on the way. He got a nice writ-up in QST recently. Attaboy Fred!

Respectfully submitted, Joseph Zelle, W8FAZ



Wanda, N9AIB, and Bob, W9CA, Hotz, display one of the historical albums of Hamfesters Radio Club station W9AA. Photo courtesy W9MOL.

CHAPTER 2, CHICAGO AREA: The spring meeting featured a talk on the history and successes of the Hamfesters Radio Club, one of the oldest and most respected Amateur Radio clubs in the Chicago area. Robert Hotz, W9CA, and his wife, Wanda Hotz, N9AIB, gave an interesting talk about their club.

Bob and Wanda, both Amateur Extra Class operators, have spent years collecting memorabilia about Hamfesters. They brought a series of albums containing pictures, copies of Ham Gab (their publication), and other material for viewing. Bob explained how Hamfesters got their name, and how the club obtained the call W9AA.

As to the name, when the group first got started they decided to have a picnic. Some one suggested that they call it a fiesta. Then those attending thought they should be identified as Ham - festers giving birth to the club name.

As far as the call, Bob explained that many years ago, the FCC permitted a club to obtain assignment of a deceased officer's call. One of their founding Presidents had the call W9AA, and they were able to have it issued to the club when he became a Silent Key. Several other instances were mentioned, such as the call W9EJ, presently held by Society of Radio Operators in Chicago.

Wanda told the story of how she first became a ham, and how her efforts have encouraged other ladies to become licensed.

Respectfully submitted, Lee Knirko, W9MOL,

CHAPTER 5, DELAWARE VALLEY: The Delaware Valley Chapter 5 held its spring meeting on June 4, 1994, at the Washington Crossing Inn at Washington Crossing, PA. The luncheon preceded an afternoon of activities on both the Pennsylvania and new Jersey side.

The speaker was Hary Kels Swan, President of the Swan Foundation and curator of the museum at the Visitors Center in the Washington Crossing Park on the New Jersey side of the Delaware River. Mr. Swan has a fabulous collection of Revolutionary War artifacts that was started by his great, great grandfather and passed down in his family from generation to generation. The collection includes many documents signed by famous people of the time, coins of the era, many firearms of the period and other items to numerous to mention.

A couple of old timers of our Chapter have been out of commission of late. "BB" Wentzel, W2HX, and Ed Kerr, W2QUH, have been unable to be active on the bands due to injury and illness. Both are in their nineties. Hopefully, both will be back on the air soon.

The Chapter net meets each Sunday morning at 10:00 AM on 3917 kHz. All members are encouraged to check in and keep up with the news and activities of the Chapter.

Respectfully submitted, Don Field, W2UAE, Secretary.

CHAPTER 14, SAN DIEGO: Chapter 14 held its summer brunch meeting on Sunday, April 10, at the Holiday Inn on Aero Drive in San Diego. Three new members, Pat Bunsold, WA6MHZ, Dan Conover, W2LUK, and Bob Utschig, K6QJP, attended. Pat is not only new to QCWA but also our new ARRL Section Manager. Congratulations Pat and welcome to the newcomers. We had a total of 31 "brunchers" this time. The food was good and the fellowship excellent.

The date for the fall meeting will be in late September or early October. Chapter 14 does not meet during the summer.

Presiding, our president, Jack Pletcher, W6JIR, has recovered from heart surgery recently. Glad you are "out and about" again, Jack.

George Mitchell, K6ZE, and his wife, also a ham, will be visiting their son in New York who again is a principal in a Broadway show. I'll bet the seats will be good!

Mr. Ed Liser, Curator of the San Diego Aerospace Museum, presented a slide show and talk about aviation in San Diego from 1927 to the present. Many of those present had a part in that bit of history. George Mitchell, K6ZE, was thanked for arranging this fine program. We may get to hear the rest of the history lesson for aviation from the Wright brothers to 1927 at another brunch meeting down the log.

Fifty-six At-Large members in our area were contacted by the secretary and invited to join their local chapter. Ten of these are now new members of Chapter 14. In addition, we have two members new to QCWA.

Respectfully submitted, Joe Saugier, K6CD, Secretary.

CHAPTER 16, BARRY GOLDWATER: The Seventh Annual Joint Luncheon Meeting of the Barry Goldwater Chapter 16 and the Pacific Southwest Chapter IX, SOWP, will be held on December 10, 1994, in Scottsdale, AZ, at the Safari Resort. The guest speaker will be Dave Bell, W6AQ, who produced the "World of Amateur Radio" films. For more details, please call Bill Jackson, W6HDP, at 602-772-9641.

Respectfully submitted, Bill Jackson, W6HDP.

CHAPTER 17, ALLENTOWN-BETHLEHEM-EASTON: The March 19th meeting was held at Denny's Restaurant, Center Valley, PA. Following the business meeting, everyone enjoyed a fine breakfast, after which Bob, K3GOX, gave a talk on noises generated by high voltage electric transmission systems and the methods and equipment used at P.P. & L. to locate and eliminate same.

The sign-in sheet showed 19 members and 2 guests in attendance which is down a little from normal due to loads of leftover snow and ice from the recent storms.

Respectfully submitted, Ray Bilger, W3TDF, Secretary-Treasurer.



Dick Kirby, W0LCT/HB9BOA, receives the Presidential Award plaque from QCWA President Harry Dannals, W2HD. This award was originally presented in absentia in 1992. Photo courtesy W7LVN.

CHAPTER 23, WASHINGTON, DC: More than 100 Radio Amateurs and their guests attended the 38th annual banquet for Washington area Amateurs on Saturday April 23rd, 1994, at the Ramada Hotel, Tyson's Corner, Virginia. Sponsors were the Foundation for Amateur Radio, QCWA Chapter 23 (Washington DC), QCWA Chapter 91 (Northern Virginia), Chapter X of the Society of Wireless Pioneers, and the Department of State and Voice of America Amateur Radio Clubs. Jack Kelleher, W4ZC, was Master of Ceremony.

The principal speaker was Richard O. Kirby, W0LCT/HB9BOA, Director of the Radio Communication Bureau of the International Telecommunication Union in Geneva. The ITU is preparing to commemorate the 100th anniversary of the dawn of the radio era in 1895, when the first successful transmissions were made by Marconi and Popov. Mr. Kirby gave a succinct history of events leading up to those historic "firsts" and a brief summary of radio milestones since that time.

The spring meeting of the QCWA Board of Directors had taken place at the Ramada on April 22nd and 23rd, and all but two of the Officers and Directors of QCWA attended the banquet, as well as the General Manager and the *JOURNAL* Editor. Another guest was Perry Williams, W1UED, who is retired from the ARRL Staff on May 1st. Perry has been the League's Washington representative for the past twenty years. He was given a portfolio to commemorate his retirement.

QCWA President Harry Dannals, W2HD, presented to Dick Kirby the plaque for the QCWA Presidential Award which had been made in absentia in 1992. This was the first opportunity that Kirby has had to receive the plaque under suitable circumstances.

Ethel Smith, K4LMB, received the Award of Excellence for twenty years of devoted service to QCWA and the Board as General Manager, Secretary, Director, and Vice President.

President Harry Dannals received the QCWA Distinguished Service Award for his outstanding guidance of Board activities during his tenure as President.

Golden Certificates were presented to Bob Arrowsmith, W4JNN (65 years), William Faust, K3CH (60 years), Stan Brigham, W3TFA (55 years), Gordon Messmer, W4IQA (55 years), and Bill Miller, K4MM (55 years). A 50-year Gold Certificate was presented to James S. McLeod, K3RPN. Stan, W3TFA also received the Century Club Certificate, and a Chapter Meritorious Service Certificate.

Others earning Gold or Golden certificates but not able to attend were: 70 years, Frank Kratokvil, K4RE; 60 years, Len Aberbach, K3ATA; George Andrews, W1DOT; Jack Bobbitt, W4HV; Bob Cannon, W4IGO; George Dively, W4CLU; Elmer Jones, K4EUX; Phil Nesbitt, W3CO; Ray Smith, N4MLC; 55 years, Irvin Hershowitz, W3HQG; Robert LeBlanc, W13F; 50 years, W. R. Dunning, K4YG; Robert J. Ertman, K3BV; Bob Fasulkey, W3BBO (Gold certificates celebrate the 50th anniversary of licensing; Golden certificates are issued in 5-year increments beyond 50 years)

Door prizes were donated by the American Radio Relay League, Electronic Equipment Bank, Ham Radio Outlet, and Maryland Radio Center.

Respectfully submitted, Jack Kelleher, W4ZC.

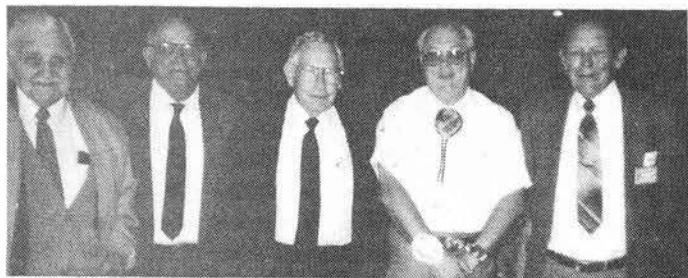
CHAPTER 25, NEBRASKA: The annual meeting of Chapter 25 was held in Lincoln, NE on April 30, 1994. Forty-nine members and guests gathered to enjoy a buffet luncheon and renew old acquaintances.

Twenty-three members were recognized for their years in Amateur Radio with the certificate for the member with the most years being Ed Nelson, W0MKP, for 70 years. Next in line was Clark Koffke, KB0B, with 65 years, then Lew Cook, W0FWW, Jim Squire, W0SKV, John McKinney, W0AP, and Maurice Chase, W0EXZ, all celebrating 60 years in Amateur Radio.

Noted guests included Leo Meyerson, W0GFQ, of Omaha, founder of Globe Radio, and Harry Snyder, W0RN, of Carefree, AZ, a long time member formerly of Fremont, NE.

Past presidents attending took the opportunity for a photo session and were recognized for their service.

Respectfully submitted, Elden C. Miller, W0KVM, President.



From left to right: John Leeder, WOUFD, of Omaha; Elden Miller, WOKVM, of Lincoln, and current president; Lyle Quinn, WOUS, of Fairbury, NE; Harry Snyder, WORN, of Carefree, AZ; and John McKinney, WOAP, of Dannesbrog, NE. Photo courtesy WOKVM.



Chapter 27, Houston, celebrated with the presentation of six certificates totaling 385 years of ham activity. From left to right: Charles Thompson, W5OP, 75 years; Roy Bennett, W5AEJ, 70 years; Guy Allen, W5JFD, 55 years; and James Jefferies, W5EFB, 60 years. A certificate for 70 years was presented posthumously to Jean Cooper, wife of Dale, W5PLE, who recently became a Silent Key. Not pictured are William Gage, W5ICL, 55 years, and Randy Pollard, AK5G, the presenter and president of the chapter. Photo courtesy N5RKM.

CHAPTER 32, GATOR: At our March meeting, we had an excellent attendance with 49 members and guests. After the members had eaten their fill, the program speaker, Bob Kinney, W4BB, gave a talk his experience in England during the War.

John Edel, K8LBZ, a national board director has been in this area for the winter and attended all our meetings which is better than shoveling snow in Ohio.

Wes Randles, W4COW, advised that QCWA gives out 10 scholarships on \$650 each. Our chapter sends \$25.00 to the scholarship fund in the name of a Silent Key member of our chapter.

We have a QCWA repeater which is owned by the Pelican Chapter on 145.29 MHz. If you are in our area, give us a call.

Respectfully Submitted, Eli Nannis, K4JMH, Secretary.

CHAPTER 38, SAN ANTONIO: We normally meet an 11:30 AM on the fourth Saturday of each month at Wyatt's Cafeteria, 8511 Tesoro Drive. For confirmation of the date of the next meeting or for directions, call Jim Wright, K5CDT, at 201-655-2346.

At our monthly meeting on January 15, 1994, the following officers were elected: President, Milton Haines, W5QCB; Vice-President, Bert Walker, KØJIH; Secretary, Jim Wright, K5CDT, and Treasurer, Ken Harwood, WA5QZI. A round of applause was awarded to Frances Bruemmer, W5KQG, and Johnny Bruemmer, W5LVE, for their many years of service as secretary and treasurer

respectively and to Norm Katz, W3TXV, for his faithful service the past year as vice-president.

At the February 26, 1994 meeting, chapter member Louis Kocurek, W5VIV, presented a videotape on the life of Thomas Jefferson. All who were present found this insight into the life of one of our greatest founding fathers to be most interesting.

At the March 26, 1994 meeting, chapter member Brother Bill Hamm, W5FMG, presented a program on color video. Presented at the technical level of the ARRL *Handbook*, at least some new knowledge was gained by all who were present.

At the April 23, 1994 meeting, Mr. Larry Lindsey of the U.S. Postal Service Address Management System presented a most interesting explanation of the Service's automated mail handling system. Those present took the opportunity to ask many penetrating questions.

Respectfully submitted, Jim Wright, K5CDT, Secretary.



Some of the members of Founder's Chapter who attended the April 6th meeting at the Explorer's club. Photo courtesy W2AUF.

CHAPTER 46, FOUNDER'S: The Founder's Chapter 46 meeting was held on April 6th at the Explorer's Club in New York City. This was the meeting to make up for the one that had been canceled in February because of a snow storm. There were about 20 members and friends as well as a few Explorer's club hams.

The first order of business was lunch which members had brought with them. After lunch John, KA2IXW, our vice-president, opened the meeting with the announcement that our president could not come because of illness. Each one was asked to identify himself. John announced that he had application forms for QCWA and Founder's Chapter for anyone interested; a few were given out.

John then introduced James Enterlin, KV2Z, who greeted us on behalf of the Explorer's Club, explaining the roots of the Club were from the turn of the century with Admiral Perry who went to the North Pole. The backers of that expedition finally became the nucleus of the Explorer's Club, the goal of which is field work connected with scientific knowledge.

Our members were split up into two groups so some could go to the ham shack while others could explore the rest of the building that has many exhibits on each floor. Their ham shack has both VHF and HF gear which can be controlled from a telephone. An interesting time was had by all and the meeting was adjourned at 3 PM.

Respectfully submitted, David W. Winter, W2AUF, Secretary-Treasurer.

CHAPTER 49, ATLANTA: Our spring 1994 meeting was held at the Heritage Family Buffet in Lake City, GA, on Saturday, April 16th. This time we tried a noon meeting to see if attendance would increase. Turn-out was better than anticipated.

Highlights consisted of recognizing the long time support of Jim, N4XIM, and Sandra, KC4SIN, Watts. Jim is sightless. He and Sandra are scheduled to leave the Atlanta area soon. They will be missed.

Chris Meadows, KC4RWF, a recent high school graduate, presented an interesting and informative program on what draws young people to Amateur Radio. This caused much intuition, revealing the best ages to approach children and how to approach school administrations.

Respectfully submitted, Phil Goodman, K4FXB.



At the April meeting Ben Adams, K4EZ, left center, presents a Chapter 49 Certificate of Appreciation to Jim, N4XIM, and Sandra, KC4SIN, Watts for their chapter support as visitors while Chris Meadows, KC4RWF, left, the guest speaker looks on. Photo courtesy K4FXB.

The Atlanta Chapter 49 held its Summer meeting on May 28th and had a "full house." During the introductions, Ben Adams, K4EZ, was recognized for just completing his 61st wedding anniversary and Sandra Watts, KC4SIN, (visitor) for having completed her 9th anniversary. Also, the following provided some information:

Paul, K4IZI, and Mary Vazquez gave a brief account of their recent Baja Mexico travels. Mike Wyzga, W4OBD, explained his recent QTH move and why he had not been active. Sandra, KC4SIN, announced that her OM, Jim Watts, N4XIM, is attending special computer classes in Little Rock, AR where she will be moving and joining him soon. It was great seeing the following members who attended: Clay Griffin, W4DXI; George Sensibar, W9RR; Marty Stern, KM4MG; Jim Stafford, W4QO; and Dave Meadows, K4LDI.

The winner of the door prize was Sandra Watts, KC4SIN, which was a copy of Dave Thompson, K4JRB's recent publication, *Amateur Radio Mail Order Catalog/Resource Directory*.

The following items were discussed: Wendell Cushing, K4VN, explained Chapter 49's effort to increase Saturday SSB Net participation by awarding those checking in at least 75% of the time during the present year specially designed Chapter 49 name tags. The upcoming Southeastern Amateur Radio Convention (formerly the Atlanta Hamfest) was discussed in detail by Marty Stern, KM4MG, for Phil Goodman, Secretary, who was unavoidably absent. Chapter 49 is to have a booth on Saturday.

Bill Plage, W4DQT, and Mary Whatley, WB4ALU, said that Chapter 49 has again been requested to setup an Amateur Radio demonstration on Thursday, July 7th during the annual National Kidney Foundation of Georgia's "Annual Camp Independence" for young persons who are kidney transplant recipients or eligibles.

The main presentation was coordinated by Jim Stafford, W4QO, about SciTrek Amateur Radio Society (STARS). STARS is a permanent Amateur Radio station operational exhibit at SciTrek which is located in downtown Atlanta. Many photos were passed around for everyone to view the new facilities. Jim expressed his appreciation to Chapter 49 for supporting this educational and public



Bill Plage, W4DQT, Chapter 49 Officer presents a Chapter 49 produced "STARS" orientation video (first of many) and a QCWA hat to Miss Angela Fletcher, Assistant SciTrek Education Coordinator. Photo courtesy W4NZJ.

relations effort which is introducing Amateur Radio to many young people.

Because of recent commemorative activities regarding the "Normandy Invasion," all Chapter 49 members who served in W.W.II were recognized.

Respectfully submitted, Jud Watley, W4NZJ, President, Chapter 49.



Al Long, W5EKE, and his wife Sylvia accept Community Service award from Chapter 51 President Dub George, W5BFF. Photo courtesy W5BFF.

CHAPTER 51, GOLDEN TRIANGLE TEX-LA: The February meeting was highlighted by a demonstration of traditional navigational equipment by Capt. Glenn Tronstad, W5MSX. Glenn demonstrated his 50 year old sextant, described how the time-honored instrument worked and passed it around for all to inspect. The sextant had been crafted in England and cost \$155 in 1944 (almost a month's wages). He also told about some of his early days at sea, including the day his captain brought a .44 pistol into the shack to impress him with the need to maintain radio silence to prevent radiation from the receiver being used by submarines to locate the ship. This brought out stories from several others in the group.

The March Eyeball QSO was held at the Wyatt's Cafeteria in Orange, Texas in conjunction with the Orange Hamfest. Two of our members were lucky at the Hamfest. Glenn Tronstad won a lovely bromeliad in the hourly drawing and Matt Furth, W5IWA, won \$20 for being the oldest ham present. Although there was no formal program this month every one talked about the bargains they had acquired at the flea market. Chapter 51 had an informational booth in the flea market.

The April Meeting was held at Dorothy's Front Porch with 23 hams and seven wives and guests present.

Al, W5EKE, and Sylvia Long had been recently featured on the CBS Good Morning show as seniors active in community service. A video tape of their appearance was shown during the meeting and

the AI told about their experiences in taping the show. The network news team spent 2 days following them during their usual daily activities such as hospital visiting, aerobics class and a Beaumont Senior Police Academy Ride-along. After the presentation AI and Sylvia were presented a Community Service Award from Chapter 51 of the QCWA and the video tape of their TV appearance.

The QCWA Monday evening net continues to have 12-20 check-ins.

Club members will participate in the Polly '93, a state-wide emergency preparedness exercise on May 12th. This year's scenario will be that Hurricane Polly has hit the Gulf Coast, forcing a mass evacuation of coastal communities. The exercise will cover the period of moving back in after the evacuation.

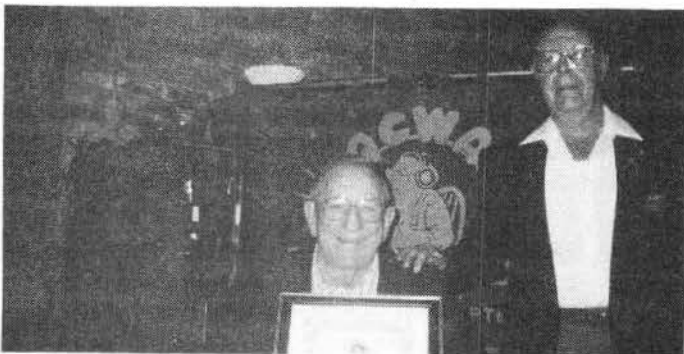
Respectfully submitted: Dub George, WA5BFF, President
4100 Big Bend, Port Arthur, TX 77642, Home, 409- 982-4442; Work, 409-983-5145.

CHAPTER 53, SUNCOAST: The Suncoast Chapter has changed its meeting day to the first Wednesday of the month from October through May. We will meet at Mrs. Appleton's Family Buffet on Bee Ridge Road and MacIntosh Blvd. Will hold our Eye Ball QSOs there for the month of June, July, August and September. These are not formal meetings—no business and no program.

Officers for 1994-1995 are as follows: President, John Karban, W3IGC; Vice-President Croft Taylor, VE3CT; and Secretary-Treasurer, Virginia Menerick, W8MEJ.

Robert L. Hartford, K4IKB, became a Silent Key on April 13, 1994. Bob was a member of both QCWA and OOTC and belonged to the Suncoast Chapter.

Respectfully submitted, Bob Bookwalter, W4NWF.



George Sperry, W4UKA (seated left), receives his 70th Anniversary Award Certificate from Suwannee Chapter 62 President Jim Keele, K2SN. Photo courtesy AG3S.

CHAPTER 62, SUWANNEE: February 26th was a milestone meeting. County Sheriff Ken Ergle gave a highly absorbing rundown on measures taken recently to reduce crime. We welcomed new member Ron Stocker, WA8DOI, and his wife, Mildred, KA8WKY. President Jim Keele, K2SN, proudly presented George Sperry, W4UKA, one of three remaining of the twelve 1972 founding members, with his 70th Anniversary Award Certificate. This award was originally scheduled for presentation at the Orlando Convention but it was postponed because George broke his hip that week.

First licensed as 9CBI, George is a CW type and has 337 DXCC countries confirmed. He was council chairman for running the 1974 convention in Orlando, the first ever held in Florida, and was chairman of the 1975 National Nominating Committee.

Bill Menner, K2YMQ, was roundly applauded as he received a well-deserved certificate for his "enthusiasm, dedication, and service as 1993 President and 1993 Vice-President."

By unanimous vote, we split in two the office of Secretary-Treasurer (to encourage volunteerism), and changed the number required for a quorum (to reflect fluctuating membership levels). Tom Brumbaugh, KI4CX, is now our first stand-alone Treasurer.

Respectfully submitted, Bob Saulpaugh, AG3S, Secretary.

CHAPTER 63, CENTRAL OKLAHOMA: On April 9, 1994, the Chapter 63 members who attended the Lawton Hamfest enjoyed a QCWA luncheon with the members of Chapter 114. Cecil Cash, W5PML, hosted the luncheon, and those who attended enjoyed good food and fine fellowship.

Ham Holiday, Oklahoma City's major annual hamfest, will be held during July 29-31. The location of the hamfest will be at the Oklahoma City Fairgrounds, Northwest 10th and May. Gene Nailon, K5DLE, has graciously agreed to be in charge of the QCWA booth, to be located in the flea market. Note: there will be no ARRL consignment booth at the hamfest this year. A QCWA breakfast will occur at 8:00 AM on Sunday, July 31, at the Days Inn, Northwest 39th and May, approximate two miles north of the hamfest site. Norm Wilson, W5FLO, has graciously agreed to host the breakfast. We certainly hope that many of you will be in attendance. For more information on the breakfast, contact Norm.

Respectfully submitted, Carol King, K5CPZ, President.



Left, Ken Palmer, K2FJ/ZB2G, Secretary, Chapter 65, presents the QCWA Meritorious Award to Tom Whalen, W2OI, Vice-President/Treasurer. Photo courtesy K2FJ/ZB2G.

CHAPTER 65, NIAGARA FRONTIER: Mention should have been made that at our Fall Banquet two new *Callbooks* (North American edition with Supplement and Foreign edition) were donated by Jim Waldron, W1HGZ. A drawing was held to give them away.

A real enjoyable time was had at our Annual Christmas Party on December 11. There were 26 members and guests present. Several gals baked decorative cookies. The Christmas Carol "Silent Night" was professionally sung by Bob Kerns, K2VNM, and Ann Palmer. If you missed the gathering, keep it in mind for next December.

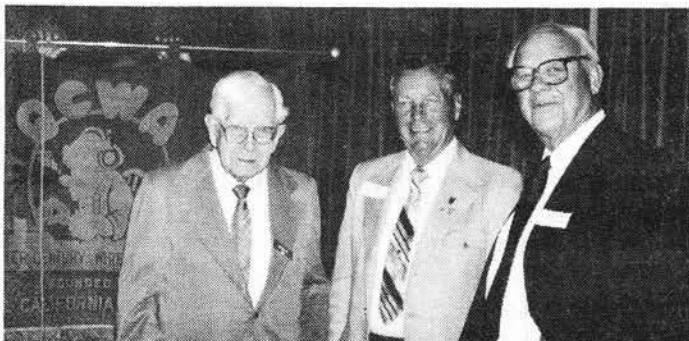
Bill Hope, W2EWT, former Secretary-Treasurer for six years, is enjoying his new rig, a Kenwood TS 950 SDX. Wow!

It is suggested that all QCWA members check their Amateur Radio license expiration date. With ten year terms, it is easy to let the expiration date slip our minds.

It is with deep regret we mention the passing of member Stu Korkow, W2PUT, on March 18, 1994.

Our President Emeritus, Slim Griswold is still making audio tapes for shut-ins. Nice work OM!

Respectfully submitted, Ken Palmer, K2FJ/ZB2G, Secretary.



From left to right: John L. Peer, W8LS, 75 years in Amateur Radio, Bud Layman, Program Speaker, and Len Cummings, W6RBB, Vice-President, Chapter 75. Photo courtesy W6ELH.

CHAPTER 75, CENTRAL CALIFORNIA COAST: Our Spring Luncheon and Program was held on April 16th at the Maria Del Sol restaurant in Santa Maria, CA. It was enjoyed by 49 members, and friends of Central Calif. Coast Chapter 75. The Luncheon was a serve yourself buffet with BBQ chicken, BBQ Tri Tip, and roast turkey along with salads, vegies & dessert, which everyone enjoyed! During introductions we had the pleasure of introducing four new members for Chapter 75. They are: John, WA6AJB, Merle, K6DC, Steve, NM7J, and Chuck, W6ZVP.

Next, during introductions, it was our pleasure to pay a special tribute to one of our long time members, John L. Peer, W8LS, who is spending his retirement years in Arroyo Grande, California. John, who was 91 on April 16, 1994, first received his Ham License in 1919, and has been in Amateur Radio for 75 years, plus! Jim Walsh, General Manager, QCWA National, is preparing a 75 Year Certificate/Plaque for John, to be presented to him at our fall luncheon in October. Today our Vice-President Len Cummings and all present, gave special recognition to John, and, in lieu of the plaque, we presented John with a copy of the letter from Jim Walsh, promising him the plaque at our next luncheon meeting.

The program, which followed the luncheon, was presented by Bud Layman who now lives in Pismo Beach California. Bud Layman, who was born on Dec. 5 1922, but did not exist from 1953 to 1960, as he was a U-2 Pilot and spy! He was one of 14 technically nonexistent pilots in a technically nonexistent CIA/Air Force spy program for seven long years. During that time he carried no identification; he never had his picture taken; he was anonymous even to the other officially non-existent pilots in his officially non-existent squadron; and he flew an officially non-existent, unmarked U-2 spy plane. He was a "Cold War hero warrior," a U-2 Pilot. All members and friends in attendance were spell-bound with the many stories and happenings during those seven "nonexistent years." There was an overtime "question and answer" period following the very interesting talk. It was difficult to close the meeting, but very worthwhile!

After the program, several door prizes were given away, among them a crate of Santa Maria grown strawberries. All in all, it was a very enjoyable time of fellowship with QCWA friends from Pacific Palisades (LA area) to the south, to Oakhurst, CA, on the northeast, in North/South Central California.

Respectfully submitted, Dave Kreiss, W6ELH, Secretary.



Blue Ridge Chapter 76 member, John Frey, W3EUS, seated, shows his 60 Year "Golden Certificate." He is surrounded, from left to right, by Ruby, his wife, Harry Mills, K4HU, Director Emeritus, Walt Steiges, W1HTL, President, and Arch Doty, K8CFU, Secretary and QCWA National Director. Photo courtesy K8CFU.

CHAPTER 77, NORTHERN NEW JERSEY: The 1994 Spring Luncheon was held at the Robin Hood Inn in Clifton, New Jersey on March 26. Gathered to enjoy the fine food and fellowship were 25 members and guests. Chapter president Dave Wiesen, K2VX, gave an interesting talk on how technology affects the functions and operation of various enterprises. Dave drew an example of the present pyramid structure of the National Traffic System in Amateur Radio and an eventual development of a multiple connected packet network grid layout. The talk also discussed the idea of sophisticated "thinking" ham equipment.

Members were also informed about the forthcoming trip in May to the ARRL headquarters which is the Chapter's next field trip.

Respectfully submitted, Henry J. Dull, W2PHW, Secretary.

CHAPTER 80, CALOOSA: Chapter 80 scores big. A check of the April QCWA Caloosa Chapter 80 meeting at Cape Coral Florida, which included 12 members, shows a total of 591 years of service. Leo Haijsman, W4KA, Secretary, contributed 71 years to the total. Leo was first licensed in 1923. I do think that the ladies should receive some honor for their endurance during these 591 years.

Respectfully submitted, Leo Haijsman, W4KA, Secretary.

CHAPTER 82, SAILFISH: The April meeting of Sailfish Chapter was held as usual on the 3rd Friday of the month in Suart Florida.

The attendance was good as usual in the winter months here in Florida before all our snowbirds start back up north for the summer. We had 23 members and guests in attendance.

After a short but fine business meeting, where we were happy to see Bill Phelan, W2AWA and Alex Polityke, W8FLA, back at our meeting again, we had a nice talk by Alex on his last year's Yaesu Cruise to the Caribbean.

They used their own calls while operating on-board ship and when they stopped and operated on the eight islands along the way, they used the prefixes of the island they were on.

The two Yaesu FT 1000s and two Yaesu FT 990s and other equipment were furnished by Yaesu. They also operated satellite operations and altogether made over 10,000 contacts!

Alex being the good CW operator he is, entered the CW contest and won second prize! We then found out that they rigged up

a toilet seat as the CW key! The operators had to use it sitting down on it! Now that takes a good CW op!

It sounded like a great time for all hams aboard. Alex told us they may run another trip next year. It was an interesting talk that was followed by the usual QRMing and good food.

If you are ever in the area of Stuart, Florida, on the third Friday of the month, drop in to our meeting at the Flamingo Restaurant on US 1 at 11 AM and we will be happy to meet any QCWA member.

Respectfully submitted, Norm Dias, W1UHY, Secretary-Treasurer.

(Editor's note: The following report by Chapter 87 is a combined report. The spring report was accidentally left out of the Journal when I accidentally left it in my briefcase. My apologies go to Chapter 87 for my absent mindedness.)

CHAPTER 87, EVERGREEN: Chapter 87 extends greetings to all other Chapters and invites all of you to visit us on Sunday mornings on 3985 kHz at 0700 Pacific time.

The winter in our area cannot be called "normal" by any means. Very little snow which makes us concerned about next summer's water supply. Temperatures have never gotten below 20 degrees, or so. About mid January it hit an all time high of 55 degrees. Our sympathy goes to those east of the Mississippi.

Sunday morning attendance has been running about 15-20 members. Wish more could rouse themselves out of bed and at least say hi.

Our past President, K6LWS, who operates a small business from his home has been forced to shrink its size due mostly to the change in small business regulations established by our government. Seems sad such a thing has to be forced on little operators who employed only two or three people. Now Lance's business is a one-man operation.

W7VOU has found a novel use for his old CB (excuse the word) equipment. His ham shack is in a separate building at a distance from his house. Since his wife has had some health problems he needed an intercom. After pricing a few, he might as well place those old CBs in use so he now has a new intercom system and his wife is very happy being able to tell him when it's time to come in for breakfast. Congratulations, Don, on the ingenuity.

Don, W7ZNN, in Spokane, retired recently after some 42 years with his firm. Shortly it was announced the president was also throwing in the chips after only 27 years. It appears to us that Don must have been the stronger of the two. Congratulations on joining a lot of us in the Chapter.

Anybody got a fix for an early Yaesu that won't stay on frequency? If you have any ideas other than a deep six, contact John, W7CHU, and he will be your slave forever. When he is Net Control, it takes lots of time when the net tries to keep up with his drift.

Sorry to report the loss of one of our Charter members, Ed Moore, W7FFD. Ed had been ill for a number of years. His passing was on Christmas morning at his home in Orofino, ID.

We also extend our sympathy to Ed, W7EQU, whose wife passed away recently.

Our Annual Spring meeting was held in Spokane on April 2, in the "Eagle's Nest" of the Shilo Inn. Some fifty people attended. Unfortunately, our guest speaker was missing because of a misunderstanding. We are sorry this happened but our wonderful group provided an impromptu program and it turned out to be great. Each table had a gabfest amongst themselves and from all reports it turned out to be one of the best spring gatherings Chapter 87 has enjoyed.

It is with sorrow we report the passing of one of our old-timers, Jim Malmstrom, W7LUP, of Omak, WA. He had been ill for a lengthy period according to family members. He will be missed on our net.

Scott, KB7TA, is trying to organize a CW net for our Chapter on Tuesdays on 7035 kHz at 0900 local time. Hope it is successful and the turnout is great.

WU7J and W7LBK have been spending the past winter attending every concert held in Spokane. Their reports let us know how great the music has been and selling many of us on the idea of joining them.

Since W7ZNN has retired, his trips have not stopped. He and his wife just recently returned from a cruise in the Caribbean.

W7PCP tried out his new motor home by spending all winter exploring the Great Southwest along with his wife. Last report has him back in the great state of Idaho.

K6LWS, who is a gun dealer among other business activities, reports that every time that changes are made in the gun laws, his business booms, whatever that means (*Is that a play on words? -Ed*). Chapter 87 has entered into the National Scholarship Fund as a major project this year and has submitted its first entry from KB7TA. We are also working with the University of Idaho Radio Club and have other applicants ready for submission.

Respectfully submitted, Al Cutting, W7ENQ, Secretary.

CHAPTER 92, NORTHERN LIGHTS: Our monthly luncheon meetings at the Royal Fork Restaurant in Anchorage continue to be a success and a pleasure, with consistent good attendance enhanced by guests from the South Central (Alaska) Radio Club. Schedule conflicts with radio contests diminish the attendance a bit since some of our members, including our President, Tony, KL7AF, are world class contesters. We're considering a change to the third Saturday of each month.

Visitors to the great state of Alaska this summer are encouraged to join us for lunch and fellowship. When in the Anchorage area, just call for a QCWA member on 146.37 (103.5) or 147.570 MHz simplex to get the lowdown on dates, times, and locations. Other repeaters you should try are 147.900 and 147.600 (141.3) MHz.

For on-the-air fellowship with Alaskan hams, check into the following nets: Alaska/Pacific Net, 14.292 MHz, 1630 UTC; Alaska Snipers Net, 3920 kHz, 0200 UTC; Alaska Bush Net, 7087 kHz, 0400 UTC (note: phone operation on this frequency is permitted when west of 130° W); and the Motley Group, 3933 kHz, 0500 UTC.

Since the time change in April, our weekly 75-meter QCWA net is conducted at 0300 UTC, Thursdays, on 3890 kHz. Why we have daylight savings time in a land where it's daylight nearly all the time is another mystery of the Far North.

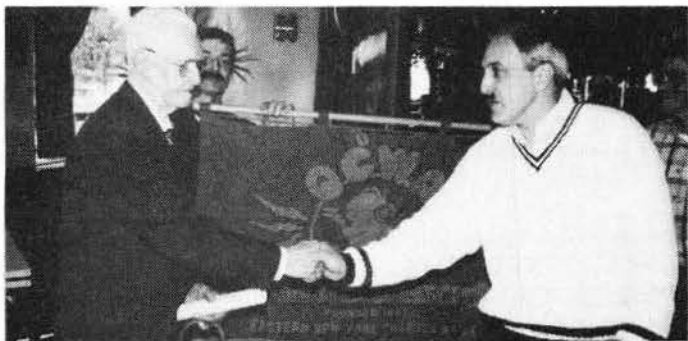
Respectfully submitted, Larry Plessinger, AL7LW, Secretary-Treasurer.

CHAPTER 95, EASTER NEW YORK: We regret to announce that George Fuller, W2BSH, has become a Silent Key. George was one of the founders of Chapter 95 and served as our first president. He will be greatly missed. Our sympathy to his wife Majorie and the family.

Chapter 95 continues its monthly get-togethers at the Glenville Diner on the third Saturday of each month. The Sunday morning 75-meter phone net attracts a core of regulars including Dick Lathers, KJ2T; Jim Polk, WB2RFX; and Bill Schaal, K2YGF, who checks in with a big signal from the Syracuse area. Affectionately called the Potato Chip Net, it got this name during one session when one member began to munch on a bag of chips.

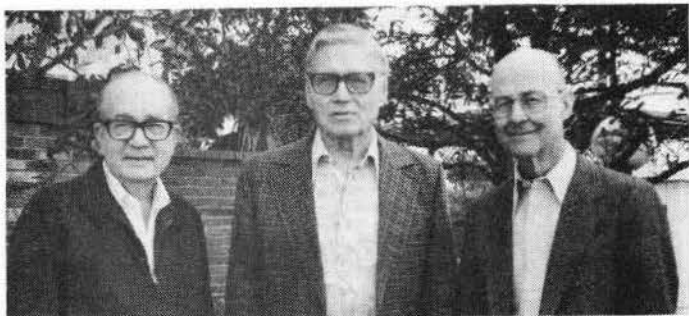
With winter finally gone and members out of hibernation, we hope to get the Chapter together for at least one Summer gathering.

Respectfully submitted, Bill Diman, WB1M, President.



Earl Houck, W2GTC (left), receives the QCWA award for 55 years of Amateur Radio operations from Chapter 95 President Bill Diman, WB1M. Photo courtesy WB1M.

CHAPTER 101, COASTAL BEND: Under the leadership of Bob Phillips, W5NZ, Chapter 101 has been revitalized and is healthy and growing. Bob and his wife, Cleo, AB5PH, will be leaving the area to travel afloat their yacht, *S/V Kaimalolo*, a spacious catamaran that they have spent the last five years building. They will have all the comforts of home and intend to live aboard and see lots of the world. Bob is retired from the U.S. Navy and after being aboard submarines most of his career, he wants to see what the world looks like from the surface. Bob and Cleo will be very active as maritime mobile so we will be able to keep in touch with them.



Newly elected officers of QCWA Coastal Bend Chapter 101 are, from left to right: Bob Douglas, W5GEL, Vice-President; Henry Binz, W5HQ, Secretary-Treasurer; and Clyde Hester, K5TX, President. Photo courtesy W5GEL.

Elections were held and Clyde Hester, K5TX, moved up from vice-president to president. Bob Douglas, W5GEL, serves as vice-president, and Henry Binz, W5HQ, is the new secretary-treasurer.

Chapter meetings are held on the first Monday in January, March, May, July, September, and November. If a holiday is on Monday, the meeting is postponed one week. All area QCWA members and especially winter Texans are invited to the meetings. Meetings are held at Harvey's Red Barn, near Alameda and Everhart, across the street from Mt. Carmel Home.

Respectfully submitted, Bob Douglas, W5GEL, Vice-President.

CHAPTER 104, TREASURE STATE: Fourteen members and ten guests were in attendance at the luncheon held in Bozeman on April 9, 1994. Several members who seldom miss were in California or

Arizona, and they missed not only a good meeting, but beautiful Big Sky weather that weekend.

The highlight of the meeting was an interesting talk by Mike Lamb, N7ML. Mike told us how he started C-Comm in Seattle, and then realized that digital processing was going to be the "in thing" so he started AEA. He gave us a brief explanation of some of the AEA equipment, but then got into his recent experiments with directional vertical wire antennas for 40 meters. An interesting subject which I'm sure we will hear more about.

During the past year Chapter 104 had four members enter on the roll of Silent Keys. Condolences have been sent to the families, with flowers or Memorials. A decision was made at this meeting to only send Memorial Contributions to the QCWA Scholarship Fund for our Silent Keys in the future.

Our Saturday morning net on 3938 kHz continues to attract many members, but as clubs in several cities had Saturday morning "Coffee Klatches," we have conflicts with our 9 AM time. We are usually joined by one or more members from Chapter 87, and welcome other visitors. W7DB continues to do the chores as our net control.

Hope you made it to our QCWA meeting at the Glacier-Waterton Hamfest.

Respectfully submitted, George Hansen.

CHAPTER 107, CENTRAL FLORIDA: Our Chapter welcomes new members Bert Onachila, KG2G, and Walt Child, KB8NTG, who recently joined our Chapter. We are currently looking for new members to add to our roster.

Roy Coleman, WA4OZA, is doing an excellent job of getting speakers for our meetings. He has managed to get people to present programs that appeal to all in attendance.

Our May meeting will be our Founders meeting in which we honor our Founding members. Norm Darch, a founding member, will tell how the Chapter was organized and tell about the early days of Chapter 107. The Secretary will research the old minutes for interesting facts noted in the early minutes.

Chapter 107 meets the third Saturday of every month at 11:30 AM at Stacy's Buffet, 4320 U.S. Hwy. 98 North, Lakeland, FL (one mile north of I-4). All Amateurs and their Spouses visiting our area are invited to attend.

Respectfully submitted, Jay Hitchcock, K8YGH, Secretary.

CHAPTER 108, BEAVER STATE: Beaver State Chapter 108 met for a luncheon meeting at Burton's Sunnybrook Restaurant, in Corvallis on April 16, with 24 present. President Gene Kelsey, N7EIF, opened the meeting following lunch with introductions of members and guests.

A very interesting speaker from South Africa, a student at Oregon State University and a member of the International Cultural Service told of his two years required military service in the South African Navy. No, his duty was not on a navy ship—he was sent to school to be a radio operator and was required to learn in a short time touch type and take down Morse code at 35 WPM. Upon graduation, he was assigned to several coastal monitoring stations to record radio transmissions from fishing and other vessels nearing South Africa. He told of several interesting intercepts of vessels that they could interpret obtaining their direction, speed, and location from the clear text code groups. He also answered questions pertinent to the timely situation in his home country. See (!) members who were not in attendance, you missed an excellent discussion.

Jim Walsh, the National QCWA General Manager and a charter member of this chapter spoke of numerous future meetings and conventions scheduled for the remainder of this year. He also

said that the HQ club station, W2MM/7 is about to start emitting its first emissions from the Eugene, Oregon location.

The next quarterly meeting will be July 16, 1994, in Eugene. For information contact the Secretary.

Respectfully submitted, Fred Dickson, Secretary.



Lionel A. "Al" Oubre, K5DPG, and his wife Carolyn, KA5IJU, were hosts to Baton Rouge Chapter 109 at the Lafayette, Louisiana Hamfest. Al is ARRL Section Manager for Louisiana.
Photo courtesy K5SNE.

CHAPTER 109, BATON ROUGE: The Lafayette, Louisiana Hamfest was the host for the spring breakfast meeting of Chapter 109. A total of 45 members and guests were present, including members from chapters in Louisiana, Texas and Mississippi. We were happy to introduce the organizers of the new QCWA Chapter 189. They plan to adopt bylaws and elect officers soon.

Our Member-of-the-Year winner for 1993 is Bill Goforth, W5URR. Bill will be presented with a handsome framed certificate at our next meeting. Bill is one of our charter members and a regular net control for our Sunday morning net. We congratulate Bill and thank him for his many contributions to our Chapter.

Please check into one of our local nets, Sundays on 3905 kHz at 0830 or 146.79- at 2000, both local times.

Respectfully submitted, Burke Brumfield, K5SNE.



Charles Willett, W1ESP, member of Chapter 122, was recently honored for 61 years of service in Amateur Radio communications. Surrounding him are, from left to right: Janet Firth, director of Warren County Emergency Management Agency; County Commissioners Susan McConnell, Dick Campbell and Jack Donaldson. Photo courtesy Warren Times Observer.

CHAPTER 122, LAKE ERIE TRI-STATE: The Chapter held its winter meeting at The Hoss Restaurant, Erie, PA, Saturday, January 22, 1994. The luncheon meeting was attended by 25 members and their guests. Entertainment was provided on the keyboard by Mrs. Evelyn Owens and was very much enjoyed by all.

After lunch President Joe Seppala, KC3LV, asked that all members introduce themselves and their guests. Joe thanked the outgoing Officers and Directors for the assistance they had given him during the past year and then introduced the incoming team for 1994: Gerald Owens, AB3X, President; Richard Quiggle, W3NGO, Vice-President; John Stager, W3ZBF, Secretary-Treasurer; Joe Seppala, KC3LV, Paul Gerbracht, W3QPP, and Philip Ehrman, W3QWL, Directors.

Joe then turned the meeting over to Gerald, who thanked everyone for coming, thanked the outgoing officers, and spoke of a few plans for 1994. The meeting planned for April 23 will have been a luncheon meeting at Union City with a tour of their museum. A summer picnic and fall luncheon will be discussed later.

Respectfully submitted, John Stager, Secretary.

CHAPTER 126, PIEDMONT: The spring meeting of the Piedmont Chapter 126 was held at the Holiday Inn in Salisbury, NC on March 19, 1994.

After a buffet luncheon, we had a very informative and entertaining program by Ray Boylan, Director of Weather Services and chief meteorologist for Charlotte TV channel 9. He gave a good rundown on how TV weather services fit into our society and the problems associated with their work.

We voted to give a contribution to JAARS, the Jungle Aviation and Radio Service, an ancillary group of the Wycliffe Bible Translators. JAARS provides technical (air and communications) support for missionaries of the parent organization, which, in turn, provides literacy outreach to tribal groups indigenous within many countries around the world. Wycliffe uses the Bible as a textbook to teach these tribal groups how to read and write in their own language through translation of it into the native language. We also voted to make a contribution to the Moore County Abused Children Assist Group.

A total of 39 members and their guests attended.

Salisbury has become known as an antique dealer's center and the local hams passed out information on the area called "Old Town" where many antique dealers are located. Several of the wives visited the area after the meeting.

Respectfully submitted, Wilbur D. Fulton, W2SE, Secretary.



Past National QCWA President Frank Gunther, W2ALS, (left) presents the QCWA Meritorious Award to Chapter 138 Vice President Robert Buus, W2OD, at the Chapter 138 annual awards banquet on May 1, 1994. Photo courtesy W2DME.

CHAPTER 138, CENTRAL NEW JERSEY: The thirteenth annual awards dinner was held on Sunday, May 1, 1994, at the Fort Monmouth Officers Club. This banquet was attended by 90 members and guests. Vice President Bob Buus, W2OD, acting as Master of

Ceremonies, opened the meeting with an invocation and pledge to the Flag. This was followed by a welcome given by President Phil Petersen, W2DME.

Secretary Paul Anselmo, AE2S, gave a summary of the past year's activities. The Chapter gained the following seven members:

Bernie Ricciardi, WB2EJT (who attended the banquet); Joe Strockbine, W2KCO (who attended the banquet); Don Clark, KS7C; Ed Kracum, WB2COP (who attended the banquet); Don Bowker, KF2NQ; Mike Feher, N4FS; and John Golembeski, K2EOB.

Sadly, the Chapter lost two members as silent keys: Craig Harvey, W2CH died on October 20, 1993 and founding Chapter President Charlie Gspann, W2ZEE died on February 14, 1994.

The Chapter holds a weekly Home Brew News Net on Tuesday nights at 10:00 PM using the Asbury Park repeater on 147.045. We have averaged about 15 check-ins per session. All are encouraged to check in often to stay updated on current amateur radio activities and to reminisce of days gone by.

Treasurer Leta Ladd, WA2QCE, reported that our treasury is down slightly from last year but would recover if those in arrears on their Chapter dues would pay up.

A certificate for 60 years continuously licensed went to Joe Strockbine, W2KCO. A certificate for 65 years licensed went to Ira Myers, W2SVJ. A certificate of appreciation was presented by Chapter 138 to Walter Prang, W2HOZ, for his caring for the health and welfare of the members and administering the Elmer award for the past several years.

The Elmer Award was presented to Ira Myers, W2SVJ. Ira reminisced about some of his early work with radio and his interactions with Major Edwin Armstrong. Two other attendees, Frank Gunther, W2ALS, and Ed Ladd, W2IDZ, also indicated that they had worked with Armstrong.

(JOURNAL Editor's note: Ed Ladd, W2IDZ, became a Silent Key on June 8, 1994. He will be missed by his friends in the VHF weak signal community, which your editor writes about in my column in CQ magazine.)

The National QCWA Meritorious Award was presented to Robert Buus, W2OD, by past National President Frank Gunther, W2ALS, and Chapter President Phil Petersen, W2DME.

Guest speaker was Chuck Roswell, PJ4CR/KQ4WP, who shared some interesting insights operating a "super powered" radio station on the island of Bonaire, Netherlands Antilles.

The meeting closed with the awarding of several door prizes. The grand prize was a stereo AM/FM cassette player donated by Bill Haas, W2GMY. Another major prize was a wooden hobby horse built and donated by George Miller, K2FD. The 50-50 was won by Arnold Peterson, AB2N.

Respectfully submitted, Phil Petersen, W2DME, President.

CHAPTER 149, NUTMEG: A spring-like day attracted sixty-nine members and guests to the winter meeting held at Rapp's Paradise Inn in Ansonia, CT on February 19, 1994. The event was scheduled for the previous week, but a major snowstorm resulted in its postponement. In a way it was amusing because the guest speaker, a meteorologist, had been scheduled to talk about the weather. So much for those plans!

President Harold Chase, W1EES, welcomed everyone and expressed his appreciation for the large number of people attending the meeting. He noted that Chuck Newton, W1TNS had become a

Silent Key; Culver Dorsey, W1FNY, was ill at home in Waterford; and Sky Wardwell, K1GF, was a new member. Welcome!

Secretary Donald Steele, W1NFG awarded certificates to the following members: For 55 years: Julius Galin, W1EA; For 60 years: W. A. Bottomley, JR., W1FSF; Culver R. Dorsey, W1FNY, and Emil F. Scholz, W1EJL. For 65 years: Edward W. Cushing, Sr., W1SHW; and Earle T. Fairbanks, W1WG.

During the business meeting Don stated that the minutes of the November 13, 1993 meeting were reported in the February 1994 NEWSLETTER. Milt Chaffee, W1EFW, presented the Treasurer's report. Milt also commented on the CW contest which took place the previous weekend, the Traffic Net and the availability of *Worldradio*. He noted the publication contains an excellent QCWA column written by Jack Troster, W6ISQ.

Al Cohen, W1FXQ, Chair of the Nominating Committee, reported that the following members have been nominated for the 1994-1995 election of officers which will be held at the Annual Meeting in May: President, Charles S. Griffen, W1GYR; Vice President, Bill Kenefick, AD1I; Secretary, Don Steele, W1NFG; Treasurer, Milt Chaffee, W1EFW; and Activities/Net Manager, Cal Bennett, W1KHL.

Other members of the Nominating Committee were Cal Bennett, W1KHL and Milt Chaffee, W1EFW.

John Huntoon, W1RW, said the QCWA Board of Directors will be meeting in April and asked for member comments and suggestions.

Al Cohen, W1FXQ, and Van Jennings, W1GGT, jointly introduced the guest speaker Dr. Mel Goldstein, Director of the Weather Center, Western Connecticut State University located in Danbury, CT. His comments about the weather appear in syndicated newspaper columns and can be heard on radio and television stations.

Dr. Goldstein, better known as "Dr. Mel," presented an informative, and at times humorous, discussion on the topic of weather forecasting. He noted that his talk to the group was canceled because of the weather! Even with the technological advances—Doppler radar, weather satellites—there still isn't enough information to make consistently accurate forecasts. He tells his students that technology can take you only so far and then you must step outside and look at the sky and smell the air. This procedure often provides good clues about what the weather has in store for us. In general, he said, the past thirty years have yielded few advances in weather forecasting. Dr. Mel also took a look at the current record breaking cold and snowfall that CT residents have endured this winter and said it has been similar to what took place here in 1934 and 1947. Following his remarks there was a lively question and answer period.

Harold encouraged members to check into the net on Sundays at 11:30 am. on 3923 kHz.

Respectfully submitted, Charles S. Griffen, W1GYR, Vice-President, 1225 New Britain Avenue, Elmwood, CT 06110-2405, (203) 232-8515.

CHAPTER 158, CENTRAL ARKANSAS: The second meeting in 1994 of Central Arkansas Chapter 158 was held on March 19 at the Baptist Medical Center in Little Rock, Arkansas. Eight members attended the luncheon meeting.

Following an excellent lunch and an enjoyable fellowship session, Vice President Herman L. Cole, W5YDP, called the meeting to order. The major item of business was final preparations for the Little Rock Hamfest held on 15-16 April 1994.

The highlight of the meeting was the presentation of a QCWA 60-Year Anniversary Certificate to Charles P. Koon, WB5HES. Congratulations, Charles!! It is always a great pleasure to

recognize QCWA members who have fifty, or more, years in amateur radio.



Chapter 158 Vice-President Herman L. Cole, W5YDP (left), presents QCWA Anniversary Award for 60 years to Charles P. Koon, WBSHES. Photo courtesy K5SVS.

We are pleased to announce that QCWA member Max Gavin, W5ODF has recently joined Chapter 158. Welcome aboard!

Chapter 158 Charter Member Thomas A. Spencer, Jr., W5IGM became a silent key on February 8th, 1994. Tom is survived by his wife Shirley, a large family, and a very large group of friends.

Following graduation from North Little flock High School in 1935, Tom attended Draughton School of Radio which lead to employment with the U.S. Army Corps of Engineers as a radio operator and surveyor. He served as a shipboard radio operator in the U.S. Merchant Marines during World War II. Tom worked 23 years as a radio transmitter technician for KARK/KARN, AM 920 in Little Rock and 14 years as an electronics instructor for United Electronics Institute/Arkansas College of Technology. Attending the University of Arkansas mostly in his spare time, Tom received engineering degrees of BSEE (1971) and MSEE (1987) and was a lifetime member of the Institute of Electrical & Electronics Engineers.

Tom's lifetime hobby was amateur radio, and he contributed much of himself to the hobby. He was very active on the HF and VHF bands and regularly participated in numerous traffic nets. Tom was a fifty-five year member of the American Radio Relay League and a lifetime member of the Society of Wireless Pioneers.

In January 1986, Tom was instrumental in the organization of Central Arkansas Chapter 158, QCWA and was one of fourteen charter members. He served two terms as Chapter 158 president (1987 & 1991). He received a QCWA 55-Year Anniversary Award in January this year.

Most of the hams in this area knew Tom, and many received their license as a result of his outstanding teaching ability and his willingness to help others. If there was ever a need, Tom would volunteer to help. What more can be said of such a man?

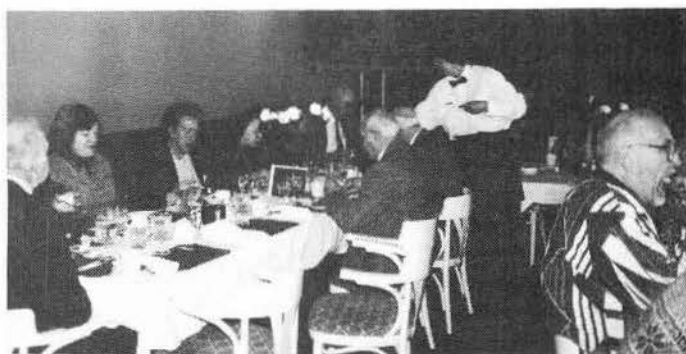
Respectfully submitted, J. Phil Powledge, K5SVS, P.O. Box 3171, Little Rock, AR 72203.

CHAPTER 160, UTAH: Our annual "Frolic" at Mesquite, Nevada, on March 14th, was attended by 53 members and guests, representing Idaho, Nevada, Utah, and Washington. Our usual Arizona and Montana members were unable to make the trip and we missed them. We met at Carollo's Supper Club for dinner and again the following morning for breakfast—what a good time! The weather held and was great for traveling.

WIMU '94 will be in Idaho Falls, Idaho, August 5-7 and our annual picnic is scheduled for Lehi, Utah, September 10th.

This looks to be another good year for QCWA Chapter 160.

Respectfully submitted, Maryellen Vaughan, KA7ZRW, P.O. Box 380935, Ivins, UT 84738.



Members of Chapter 162 enjoy their Valentine party. Photo courtesy W0WLN.

CHAPTER 162, SOUTHEAST WISCONSIN: Due to procrastination, on the part of the Chapter Secretary-Treasurer no report was submitted for the Spring 1994 *Journal*.

Our November 1993 meeting was held at the Southport restaurant in Kenosha, attended by 10 members. Nothing of great importance happened but good fellowship was enjoyed by all.

Our December 1993 meeting was our annual Christmas party held at Channing's restaurant in Racine, attended by 26 members, wives and guests. A decorated cake, table decorations made and donated by Ken Knoff, N9NEC, and his wife Marbeth and a gift exchange were highlights.

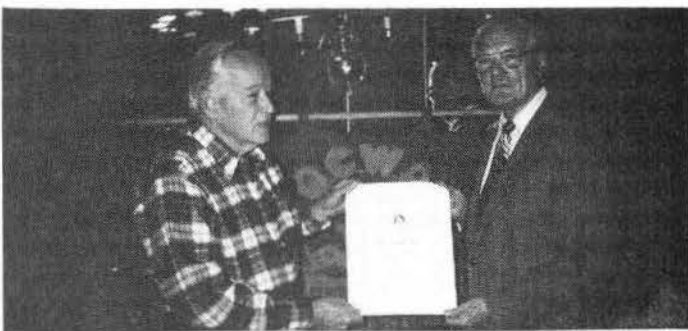
The January 1994 meeting was canceled due to very bad weather as Wisconsin experienced the most severe winter in many years.

Our annual Valentine party on February 13, 1994 was attended by 25 members, wives and guests. Valentines were exchanged by couples and red and white carnations were provided each person who attended. Arrangements have been made for Chapter members to subscribe to the "Badger State Smoke Signals," Wisconsin's ham newspaper, at reduced club prices.

On March 21 a regular meeting was held at the Apple Holler restaurant in rural Racine county, attended by 9 members and one wife. The Audit Committee reported that the annual audit of chapter financial records had been completed satisfactorily.

April 17 saw our annual Anniversary party at the Apple Holler restaurant, attended by 25 members and wives. A portable two meter beam antenna purchased for the chapter station was exhibited. A certificate for 60 years as an Amateur Radio was awarded Spence Clope, W9LDH.

Respectfully submitted, Robert N. Jensen, W0WLN, Secretary-Treasurer, Chapter 162, 5616 Cambridge Lane, Suite 6, Racine, WI 53406.



Colonial Chapter 166 President Les Weston, K3ZYK (left), presents Paul Bohlander, W3VVS, with a 50-year certificate. Photo courtesy W3ZPP.



Armond Noble, N6WR, displays the Meritorious Service Award presented to him by Chapter 169 President Paul Wolf, W6RLP. Photo courtesy W6RLP.

CHAPTER 169, SACRAMENTO VALLEY: Our Chapter meets the 2nd Wednesday of each month at 8 AM at Lyon's Restaurant, 1000 Howe Avenue, Sacramento, CA. Breakfast is served at 7:30AM before the meeting. We now have 30 members. We regret to report the passing of one of our pioneers Glenn Koropp, W6YFW. A donation was made to the QCWA Memorial Scholarship Fund in his honor. Glenn was an active ham and DXer. He will be missed by his many friends. At our last meeting on Wednesday, April 13, 1994, our chapter presented the QCWA Meritorious Service Award to Armond Noble, N6WR, owner and publisher of *Worldradio* magazine, in recognition of his 23 years of publishing that Amateur Radio magazine to hams all over the world.

Our speaker for that meeting was Colonel Garth Reynolds, US Air Force (Ret.) who described his many experiences in the Korean and Vietnam wars.

At our March 9th meeting our speaker was Mr. Les Brown from the District Attorney's office who spoke on the crime problem in California. The lecture was followed by a question and answer session from the audience.

At our February 9th meeting, one of our local hams Bob Bold, W6RDC, gave a short talk on computers and how they are used in Amateur Radio. This was followed by a talk given by Mr. Steve Riehl, of Pacific Bell who gave us the latest information on the Personal Communication Service (PCS), fiber optics, and the Information Super Highway. We always have an interesting speaker program at our meetings, and interested QCWA members and visiting Amateur Radio operators in the area are invited to attend. Please phone Paul Wolf, W6RLP, for more information at 916-331-1830.

After the program, we have a drawing for door prizes, and more socializing. Please plan to attend our upcoming meetings.

Respectfully submitted, Paul Wolf, W6RLP, President, 4812 Peale Drive, Sacramento, CA 95842, and Bill Hendricks, NS6D, Secretary-Treasurer.

CHAPTER 173, GOLDEN TRIANGLE: At the breakfast meeting of February 12th, it was the pleasure of our chapter to present a 60-year continuous licensed Certificate to Clifford Davies, AB4NZ.

Respectfully submitted, Harold E. Beaver, W0LYB, Secretary.



Cliff Davies, AB4NZ (left), receives the 60-year Continuous Licensed Certificate from Chapter 173 President Roger Harper, W9JRV. Photo courtesy W0LYB.

CHAPTER 181 HUDSON VALLEY: The Chapter annual meeting was held on March 12 at Allie's Restaurant in the Marriott Hotel, Tarrytown, NY. It was attended by 28 Members and guests. The membership roster on this date was 45.

The speaker did not find the luncheon group so, in his place, five of our members gave informal talks on how they learned of Amateur Radio and became licensed hams in the early days. This turned out to be a fascinating session.

Officers and Directors elected for the year are: Dick Robinson, W2OZA, President; Julian Heilbronner, WD2ADT, Vice-President; Dick O'Brien, NJ2J, Secretary; Stan Egelberg, W2WQK, Treasurer; and Directors, Bill Hell man, NA2M; Ralph Kilsheimer, KB2DIS; Harry Moore, W2JQS; Herb Nordholm, W1IAO; and Sy Yuter, W2NBT.

Gold Certificates were presented to our President Dick Robinson, for 50 Years, and member Jerry Mulberg, for 55 years. It was noted that Dick Robinson obtained his operators license in 1944, during World War II, and his station license two years later, in 1946.



Chapter 181 member Jerry Mulberg, W2MJP (left), and Chapter President Dick Robinson, W2OZA, receive Gold Certificates. Photo courtesy KF2AC.

It is hoped a picnic can be arranged during the summer at the newly opened John D. Rockefeller Mansion, Kykuit, in Tarrytown.

Following a drawing conducted by Stan Egelberg for some interesting prizes, the meeting was adjourned.

Respectfully submitted, Dick O'Brien, NJ2J, Secretary, 50 Quinn Road, Briarcliff Manor, NY 10510.

Chapter Memorials

You may have noticed in reading some of the Chapter Reports that often a member who has become a Silent Key is remembered by the Chapter by a contribution to the Scholarship Fund in the name of the deceased member. What a fitting way to remember your fellow Chapter member. If your Chapter desires to remember a Silent Key member in such a way, mail your contribution to the Scholarship Fund, c/o HQ, 159 E 16th Ave, Eugene, OR 97401-4017.

New Members

DATE	NO.	NAME	CALL	CITY	ST	SPONSOR	CALL
02/17/94	26537	DOVE, PAUL M	W9CIY	LAKE PLACID	FL	BEN LETSON	W4BT
02/17/94	26538	GRANT, R DEAN	WA5QVB	ORANGE	TX	-	-
02/18/94	26539	ANDERSON, EVERETT ANDY	KB9NV	COLLINSVILLE	IN	-	-
02/18/94	26540	VINCENT, RONALD	KF4D	CARTHAGE	MS	-	-
02/21/94	26541	HAIR, JAN	N5LVI	FT WORTH	TX	JACK DYE	W5TPU
02/21/94	26542	HAIR, ULIS R	W5WKH	FT WORTH	TX	JACK DYE	W5TPU
02/21/94	26543	HUNT, JOHN H JR	WA6HXE	SANTA CLARA	UT	MARYELLEN VAUGHAN	KA7ZRW
03/01/94	26544	ARNAUTOFF, MIKE	W6LUE	REDONDO BEACH	CA	-	-
03/01/94	26545	GERARD, SAMUEL P	AA8LC	MORGANTOWN	WV	-	-
03/01/94	26546	GROSSMAN, EDWARD	KC7VO	OLON	OH	AL ZIMMERMAN	W8UYN
03/01/94	26547	MILLARD, WILLIAM H	W4PBN	FAYETTEVILLE	TN	-	-
03/02/94	26548	COLER, BERNARD A	KC7CP	GLEN EDEN BEACH	OR	CARL SANDAHL	W7LYM
03/02/94	26549	DIRLING, EDWARD R	K5JMN	DALLAS	TX	BARNEY MOFFATT	W5CJZ
03/02/94	26550	EPSTEIN, DAVID A	K8RON	WARREN	MI	-	-
03/02/94	26551	EPSTEIN, JUDITH L	K8TWW	WARREN	MI	-	-
03/02/94	26552	ERDMAN, LINDA G	KA3TJZ	PERKIOMENVILLE	PA	WARREN DERDMAN	K3ZXQ
03/02/94	26553	FERRIN, GERRY A	AA7WS	GREEN RIVER	WY	-	-
03/02/94	26554	HARDY, DANIEL N	N8VV	BENTON	AR	-	-
03/02/94	26555	LOWERY, LOREN ERIC	WD4ONL	BRANDON	FL	-	-
03/02/94	26556	SOTTILE, CHARLES T	WA2EGT	LINDENHURST	NY	-	-
03/02/94	26557	SPLAINE, BILL	N6GHG	HEALDSBURG	CA	-	-
03/02/94	26558	DOLENTI, ALFRED	K3ZMC	ROYERSFORD	PA	HOWARD TROUT	W3IGW
03/02/94	26559	LEE, JOHN M	WB8CLX	CASCOTWP	MI	ARTHUR S GEYER	N8AG
03/02/94	26560	SINGER, BILL	WB2FKR	LAKEWORTH	FL	BOB MC DOW	W4KQG
03/03/94	26561	JOHNSON, CARL E	W0JL	ROCHESTER	MN	LELAND SMITH	W5KL
03/04/94	26562	CRAWFORD, FREDERICK II	AB5SL	UNIVERSAL CITY	TX	-	-
03/04/94	26563	PARTRIDGE, RICHARD W	W3ORU	WESTCHESTER	PA	HOWARD TROUT	W3IGW
03/04/94	26564	WERTZ, CHARLES L	KA9ACS	ANTIOCH	IL	-	-
03/07/94	26565	GLIDEWELL, GEORGE E	W6BFT	LOS ANGELES	CA	AL EASTMAN	W6AWI
03/07/94	26566	KAVANAUGH, JAMES W	WA6LRF	SAN CARLOS	CA	JOHN TROSTER	W6ISQ
03/07/94	26567	SIMON, STUART B	N3NXY	DOYLESTOWN	PA	-	-
03/07/94	26568	WATSON, STANLEY	KQ4TT	APOPKA	FL	-	-
03/07/94	26569	WEINSTEIN, HOWARD	K3HW	MARLTON	NJ	-	-
03/08/94	26570	FRENTZ, PETER W	K31OY	HAGERSTOWN	MD	-	-
03/08/94	26571	KANE, PAUL	WA6WGP	WOODLAND HILLS	CA	LEO MEYERSON	W0GFQ
03/09/94	26572	CLARE, HARRY M	WB2YAL	TARPON SPRINGS	FL	-	-
03/10/94	26573	CAMPBELL, BERNARD J	K6ZPE	CALIMESA	CA	MARION J HENSON	W6NKR
03/10/94	26574	HILTON, ED	W6VKP	LOS ALTOS	CA	JOHN TROSTER	W6ISQ
03/10/94	26575	PATTON, WILLARD H	K6OQO	TEHACHAPI	CA	JOHN H WIETING	K6QM
03/11/94	26576	HEITSHUSEN, DALE	K0TPN	OAKLAND	NE	ELDEN C MILLER	W0KVM
03/14/94	26577	WHEELER, ALAN A	WB4JJJ	FAIRFAX	VA	-	-
03/14/94	26578	BEDNAR, EMIL J	W5IFJ	HOUSTON	TX	W H PEARRE	K5MMP
03/14/94	26579	KENNAMER, BILL	K5FUV	AMSTON	CT	C H MARGELLI	K7JA
03/16/94	26580	DAVENPORT, BOB	WB4CHB	DANIA	FL	-	-
03/16/94	26581	DIEVENDORFF, DICK	AA6MC	SAN JOSE	CA	JOHN TROSTER	W6ISQ
03/16/94	26582	DOWNEY, BRIAN P	WA1KSF	HINGHAM	MA	-	-
03/17/94	26583	BREWER, HIRAN W	WB8DNE	SEBRING	FL	BEN LETSON	W4BT
03/17/94	26584	BUNSOLD, PATRICK C	WA6MHZ	EL CAJON	CA	JOE SAUGIER	K6CD
03/17/94	26585	GRAY, WILLIS C	WA0RIP	BELLEVUE	NE	ELDEN C MILLER	W0KVM
03/17/94	26586	JOHNSON, LELAND A	WA3MZE	MARYVILLE	TN	J V GIESLER	W4TYU
03/17/94	26587	MCCALL, RONALD H	AA4EL	ARLINGTON	VA	LEW BRADLEY	W4SWP
03/17/94	26588	SCHAAL, WILLIAM F	K2YGF	BALDWINVILLE	NE	-	-
03/18/94	26589	BERG, BLAINE G	KL7TG	JUNEAU	AK	-	-
03/18/94	26590	GEORGOPOLIS, GERALD J	WF1D	E HAMPSTEAD	NH	-	-
03/18/94	26591	PETKAC, JOHN	K8NMY	CLEVELAND	OH	ROCKY ZIMMERMAN	W8UYN
03/18/94	26592	WALKER, LEO LAUHON JR	AD4OF	COLUMBIA	SC	-	-
03/18/94	26593	KLANN, WERNER	DL5HWK	BRILON, GERMANY	-	A LEINEMANN	DL9AR
03/18/94	26594	STOESSEL, KLAUS	DK2EE	SCHEINFELD, GERMANY	-	A LEINEMANN	DL9AR

DATE	NO.	NAME	CALL	CITY	ST	SPONSOR	CALL
03/19/94	26595	JENNE, FRANK A	W4JKT	FLORENCE	SC	R K HARMON	KC4UTX
03/19/94	26596	JOHNSON, OSBORNE L JR	K4RWN	LITTLE MTN	SC	R K HARMON	KC4UTX
03/19/94	26597	LYKINS, DANIEL P	KM4GT	ISLE OF PALMS	SC	JOSEPH G WALKER	W4DNR
03/19/94	26598	MARTIN, DANIEL E	AD4PV	MT PLEASANT	SC	CHARLES B JOHNSON JR	WA4ECG
03/21/94	26599	BRILLINGER, RON	VE3XH	OTTERVILLE	ON	-	-
03/21/94	26600	WOODTKE, ROBERT W SR	ND1U	MERIDEN	CT	MILT CHAFFEE	W1EFW
03/21/94	26601	HAWES, SAMUEL P III	K4DGJ	MATTHEWS	NC	-	-
03/21/94	26602	LARSON, JOHN P	NQ1K	BURLINGTON	CT	MILT CHAFFEE	W1EFW
03/21/93	26603	MIRKO, DONKO	K6HRT	PLACENTIA	CA	JAMES H ROACH JR	KD6VWK
03/21/94	26604	RICCIARDI, BERNARD	WB2EJT	MANASQUAN	NJ	PHIL PETERSEN	W2DME
03/21/94	26605	SCHATZ, AL	W1MDS	FITCHBURG	MA	DONALD L BOLDEN	WA1KPO
03/21/94	26606	SMITHERMAN, DANIEL K	N5PMQ	NACOGDOCHES	TX	-	-
03/21/94	26607	STODDARD, GREGORY	N1AEH	SUFFIELD	CT	MILT CHAFFEE	W1EFW
03/23/94	26608	SAGOLLA, DOMINIC A	WB3KSP	LEESBURG	FL	HAL BEAVER	W0LYB
03/23/94	26609	UNDERHILL, GLENN	W0RSM	RIVERDALE	NE	JOHN MC KINNEY	W0AP
03/23/94	26610	BALOG, BRUCE M	WA1FVZ	STAMFORD	CT	CALVIN BENNETT	W1KHL
03/23/94	26611	HAYER, RICHARD WILLIAM	AA7IR	MT VERNON	WA	M H STRICKLAND JR	W7FCH
03/23/94	26612	MACKAY, A BRADLEY	KI4HL	PALM HARBOR	FL	-	-
03/23/94	26613	MORSE, GEOFFREY	K7GA	VADER	WA	DON DEMMONS	K7CDI
03/23/94	26614	UNDERWOOD, EUGENE K	W7AKA	RENTON	WA	DON DEMMONS	K7CDI
03/24/94	26615	LOMASNEY, JAMES M	WA6NIL	PALO ALTO	CA	-	-
03/24/94	26616	STEWART, DONALD A	VE6DS	EDMONTON	AB	BRUCE COLLISSON	VE6BAC
03/25/94	26617	MCNEELY, JAMES W	K4ZIR	PINELLAS PARK	FL	WILLIAM A BELL	K4AVH
03/25/94	26618	STAY, LESTER A	WA2KPD	CLIFTON PARK	NY	-	-
04/01/94	26619	CONOVER, DANIEL G	W2LUK	POWAY	CA	JOE SAUGIER	K6CD
04/01/94	26620	GAUVIN, PAUL M	KT1T	EAST HAVE	CT	-	-
04/01/94	26621	TULLEN, COLTON	K2PXQ	MORRISTOWN	NJ	BUD HALL	K2LP
04/04/94	26622	COWEN, JOSEPH H	WA5TUM	BEEVILLE	TX	J P SANDEFER	ND5L
04/05/94	26623	FISH, JOSEPH N	WG1Q	RUTLAND	VT	-	-
04/05/94	26624	TRIBBY, PETER G	N9SMF	CHICAGO	IL	-	-
04/06/94	26625	FREEDMAN, JEFFREY A	K7JF	TACOMA	WA	-	-
04/07/94	26626	CUCHETTI, JOSEPH F	K8JRE	BIRMINGHAM	MI	DON CHRISTENSEN	W8WOJ
04/07/94	26627	POCOCK, EMIL	W3EP	LEBANON	CT	-	-
04/07/94	26628	EMMONS, WILLIAM K	K7NNJ	SPRINGFIELD	OR	-	-
04/09/94	26629	BARRETT, DALLAS L	WA7MEL	SANDY	UT	DANIEL A MAC DONALD	WIPEX
04/09/94	26630	ARMSTRONG, C H	K5IRM	DALLAS	TX	RICHARD H BAUER	K5RB
04/09/94	26631	WAX, JAMES	N5LA	BATON ROUGE	LA	J WARREN AUBIN	K5DVQ
04/11/94	26632	MILLER, DANIEL P	K3UFG	ERIE	PA	G PAUL GERBRACHT	W3QPP
04/11/94	26633	YATZOOK, WALTER JR	N1CJB	S MERIDEN	CT	-	-
04/12/94	26634	CLARK, ALICE C	WA3SWU	BETHLEHEM	PA	CONRAD CLARK	W3ZMN
04/12/94	26635	HARTWEG, JEROME P	WB8CVP	ANN ARBOR	MI	PAUL L SPOONER	W8YMI
04/12/94	26636	NEUKOMM, ROBERT E	KB2WI	RIDGEWOOD	NJ	RALPH HASSLINGER	W2CVF
04/12/94	26637	PETTJOHN, VIRGINIA A	W3UWT	GLENARM	MD	GEORGE W MORGAN	W3MWY
04/13/94	26638	FAJARDO, GABINO C	K5GHL	SPRINGDALE	AR	ROY MILLIRIN	AF5W
04/13/94	26639	HILL, VERLA L	N9DCX	PEKIN	IL	-	-
04/14/94	26640	FONTENOT, ROBERT L	WB5ADU	NEW ORLEANS	LA	STAN PAPE	AA5PN
04/14/94	26641	HARRELL, WILLIAM F	K5ZKE	LAS CRUCES	NM	A DEAN FIGGINS	WA7EPU
04/14/94	26642	LAMBERT, DAVID S	KG7ZX	CHANDLER	AZ	GERRY HIGGINS	W9INP
04/15/94	26643	BLAIR, KENNETH W	KC0GL	LAWRENCE	KS	WENDELL D WILSON	W0TQ
04/15/94	26644	CHANCELLOR, STEVEN R	KF5M	LAFAYETTE	LA	RICK BREAUX	N5RLM
04/15/94	26645	DERICKSON, WILLIAM A	AD4GF	ALTA MONTE SPRINGS	FL	ALFRED LA PETER JR	WB4DRF
04/15/94	26646	MYRICK, JOHN R JR	NQ2V	MAURICE	LA	RICK BREAUX	N5RLM
04/15/94	26647	RIVOIRE, JOHN ERIC	N5MAL	MONROE	LA	RICK BREAUX	N5FLM
04/15/94	26648	SIMON, MELVIN J	WD5CAE	NEW IBERIA	LA	RICK BREAUX	N5FLM
04/15/94	26649	SOILEAU, PATRICK W	KA5NMN	LAFAYETTE	LA	RICK BREAUX	N5RLM
04/15/94	26650	WHEATON, CHARLES W	KJ4RC	CHATTANOOGA	TN	JOE DUNCAN	W4EXW
04/16/94	26651	KERNS, CLINTON B	N5QOP	NEW IBERIA	LA	RICK BREAUX	N5RLM
04/18/94	26652	BYRAM, ARTHUR	K0LKT	PITTSBURG	MO	GARY HARRISON	WA0RWS
04/18/94	26653	FREY, MICHAEL L SR	K5BDA	ALVIN	TX	-	-
04/18/94	26654	BRECHIN, MELVIN J	N3CEG	BALTIMORE	MD	BILL GREENE	WA4GHU
04/19/94	26655	GORDON, L WAYNE	K5EOA	BATON ROUGE	LA	GEORGE PERRY	W5LNX
04/19/94	26656	MOKRIS, MARK F	AA8OD	FARMINGTON HILLS	MI	DALE G SVETANOFF	WA9ENA

DATE	NO.	NAME	CALL	CITY	ST	SPONSOR	CALL
04/20/94	26657	DRLIC, MILAN	DK3HJ	HAMBURG, GERMANY		A LEINEMANN	DL9AR
04/21/94	26658	HARRIS, RICHARD H	AI5P	EL DORADO	AR	-	-
04/21/94	26659	MYERS, DONALD C	W8JYN	GREEN CASTLE	PA	MARSHALL STENGER	W3KRM
04/21/94	26660	ROSSELL, JAMES H JR	K3QYR	PITTSBURGH	PA	HUGH TURNBULL	W3ABC
04/22/94	26661	HECKMAN, CAREY EUGENE	KE6FF	PALO ALTO	CA	JOHN TROSTER	W6ISQ
04/25/94	26662	HALL, ROBERT I	KE0JK	DUNNEGAN	MO	GARY HARRISON	WA0RWS
04/25/94	26663	SWEARINGEN, SAXON B	W5GTD	LA PORTE	TX	BLANCHE RANGLES	W4GXZ
04/25/94	26664	BARR, EDWIN A	K2HD	SPRINGHILL	FL	-	-
04/25/94	26665	BLAIR, HERB	WA5YKO	CARROLLTON	TX	-	-
04/25/94	26666	FAUP, RONALD A	KB2PWS	STATEN ISLAND	NY	WILLIAM L HILYER	K4LRX
04/16/94	26667	AMBROSE, RAYMOND J	K1NQC	PAWTUCKET	RI	-	-
04/28/94	26668	BRENIKOFE, TERRY	K0UAS	HAYS	KS	JIM MC KIM	W0CY
04/28/94	26669	GABRIEL, AUGUST F	K4BZY	STUART	FL	-	-
04/28/94	26670	MORIARTY, EDWARD P	W0WWZ	POWERS LAKE	ND	-	-
04/28/94	26671	SCHULTE, RAYMOND JOHN	W0DFI	PHOENIX	AZ	GERRY HIGGINS	W9INP
04/29/94	26672	GUY, DONALD E	KC6WLF	RANCHO MIRAGE	CA	DON DOUGHTY	W6EEN
05/02/94	26673	HELMS, ROBERT E	AF5Z	AUSTIN	TX	L PECENKA	N5ORG
05/02/94	26674	HUDSON, GEORGE R	W6BTY	CITRUS HGTS	CA	-	-
05/02/94	26675	LEMMON, PAUL S	WD6BNO	NORTHFORK	CA	ROBERT W TAUXE	W6JTA
05/02/94	26676	THOMPSON, KERRY	KE4KDU	OVIEDO	FL	ALFRED LA PETER JR	WB4DRF
05/03/94	26677	ASHCRAFT, LAWRENCE D	K8RXM	WILMINGTON	OH	JOHN EDEL	K8LBZ
05/03/94	26678	BOEHNER, JAMES F	N2ZZ	AIKEN	SC	ARCH DOTY	K8CFU
05/03/94	26679	BOETCHER, MARVIN M	WV9O	VALPARAISO	IN	JOHN EDEL	K8LBZ
05/03/94	26680	BRANT, STEVEN B	W9OBX	NEW PALESTINE	IN	ARCH DOTY	K8CFU
05/03/94	26681	BROOKOVER, JAMEY C	WB8BMV	CARY	NC	ARCH DOTY	K8CFU
05/03/94	26682	BROWN, BILL	WB8ELK	FINDLAY	OH	HARRY DANNALS	W2HD
05/03/94	26683	BURNINGHAM, JOHN S	WB8PUF	MAHOPAC	NY	JOHN EDEL	K8LBZ
05/03/94	26684	CAPUTO, RAYMOND H	K2BNC	ORCHARD PARK	NY	ARCH DOTY	K8CFU
05/03/94	26685	CARR, PAUL	N4PC	JACKSONVILLE	AL	ARCH DOTY	K8CFU
05/03/94	26686	CONE, ERNIE	AA4CW	ASHVILLE	AL	JOHN EDEL	K8LBZ
05/03/94	26687	ENGELHARDT, JEFFERY A	WB9CEJ	INDIANAPOLIS	IN	ARCH DOTY	K8CFU
05/03/94	26688	FREEMAN, JOHN	W7KPB	PINEHURST	NC	JOHN EDEL	K8LBZ
05/04/94	26689	GOLDEN, JAMES	K6LM	SUNNYVALE	CA	JOHN EDEL	K8LBZ
05/04/94	26690	HALLER, ALBERT R	W8PBX	MAINEVILLE	OH	HAROLD R CALLAHAN	W8GNV
05/04/94	26691	HARTLEY, BILL	K3JNZ	NEW YORK	NY	JOHN EDEL	K8LBZ
05/04/94	26692	HARVEY, ELWOOD SCOTT	N6FLC	BLACK FOREST	CO	JOHN EDEL	K8LBZ
05/04/94	26693	JANKOWSKI, JOE	KB4AG	AUSTIN	TX	ARCH DOTY	K8CFU
05/04/94	26694	JENNINGS, RON	WD8CYC	NEW CARLISLE	OH	ARCH DOTY	K8CFU
05/04/94	26695	KERR, JOHN JAMES III	N8JK	WESTCHESTER	OH	ARCH DOTY	K8CFU
05/04/94	26696	KEY, JAMES F JR	WB4JVR	SMYRNA	GA	ARCH DOTY	K8CFU
05/04/94	26697	KIMMEL, JAMES O	W8FEJ	MASON	OH	JOHN EDEL	K8LBZ
05/04/94	26698	KLEIN, HARVEY	WS2Q	MORRISTOWN	NJ	JOHN EDEL	K8LBZ
05/04/94	26699	KUESPERT, THOMAS L	K9KF	LAFAYETTE	IN	JOHN EDEL	K8LBZ
05/04/94	26700	KUHNLE, ROBERT E JR	WB8ENR	GREENVILLE	OH	ARCH DOTY	K8CFU
05/04/94	26701	BYRGE, MC KINLEY	W4HPG	CROSSVILLE	TN	-	-
05/04/94	26702	LANG, MICHAEL W	KB2RJ	CICERO	NY	ARCH DOTY	K8CFU
05/04/94	26703	MCDONALD, SCOTT	KA9P	CLARENDON HILLS	IL	ARCH DOTY	K8CFU
05/04/94	26704	NELSON, JOEL	K4JUM	LAKE AURICH	IL	ARCH DOTY	K8CFU
05/04/94	26705	PERRY, MICHAEL S	WB8DNZ	MILFORD	OH	ARCH DOTY	K8CFU
05/04/94	26706	PETSHOT, GEORGE E	K3EED	BETHEL PARK	PA	JOHN EDEL	K8LBZ
05/04/94	26707	PICKERING, ALAN J	KJ9N	APOLLO BEACH	FL	ARCH DOTY	K8CFU
05/04/94	26708	REIK, CHARLES M III	N8WDH	GARDEN CITY	MI	ARCH DOTY	K8CFU
05/04/94	26709	REVELLE, LEONARD B	KE9YR	GRAYS LAKE	IL	ARCH DOTY	K8CFU
05/04/94	26710	ROBBINS, WILLIAM C	WA9CDU	KALAMAZOO	MI	JOHN EDEL	K8LBZ
05/04/94	26711	SCHMIDT, PAUL L	K9PS	BLOOMFIELD	IN	JOHN EDEL	K8LBZ
05/04/94	26712	STATMORE, CLAY	WA2JIM	LINCOLN	NE	JOHN EDEL	K8LBZ
05/05/94	26713	THERNES, JOHN	WM4T	COVINGTON	KY	JOHN EDEL	K8LBZ
05/05/94	26714	TOMMASIN, JAMES	WO3Z	EIGHTY FOUR	PA	JOHN EDEL	K8LBZ
05/05/94	26715	WHITE, WILLIAM E	WB4LAI	WAYNESVILLE	OH	JOHN EDEL	K8LBZ
05/05/94	26716	WICKERT, KEITH	W9DKY	SISTER BAY	WI	MAURICE J MEAD	W9FBC
05/05/94	26717	ZIMMERMAN, LAURENCE I	WB8COL	CINCINNATI	OH	ARCH DOTY	K8CFU
05/05/94	26718	DROBES, BILL	N4IEZ	CHAPEL HILL	NC	-	-

DATE	NO.	NAME	CALL	CITY	ST	SPONSOR	CALL
05/06/94	26719	ALLSOPP, MARY F	WB5DVA	LITTLE ROCK	AR	W MC ALLSOPP JR	W5TJI
05/06/94	26720	ANDREWS, RAYMOND N	K9DUR	W TERRE HAUTE	IN	-	-
05/06/94	26721	BOBEL, KENNETH	WA8YJW	LORAIN	OH	JOHN EDEL	K8LBZ
05/06/94	26722	BOTTOM, DAVE	KD6ZA	TRACY	CA	JOHN EDEL	K8LBZ
05/06/94	26723	BRESKY, PHILIP L	WB8AVD	MOGADORE	OH	JOHN EDEL	K8LBZ
05/06/94	26724	BRONSTEIN, MARVIN S	K2VHW	S PLAINFIELD	NJ	R GELBER	K2WR
05/06/94	26725	ALLARD, RAYMOND A	K1MFZ	PAWTUCKET	RI	-	-
05/06/94	26726	BULLINGER, GARY NORTON	WB9BVZ	WARRENVILLE	IL	ARCH DOTY	K8CFU
05/06/94	26727	BURNETTE, WILLIAM W	KO4XF	CUMMING	GA	JOHN EDEL	K8LBZ
05/06/94	26728	DEARTH, GARY L	KD9F	PONTIAC	IL	JOHN EDEL	K8LBZ
05/06/94	26729	DELWICHE, DANIEL E	AA6LP	SAN JOSE	CA	-	-
05/06/94	26730	FARKAS, STEVE	WA2NFR	SHERMAN OAKS	CA	JOHN EDEL	K8LBZ
05/07/94	27631	FEARNS, RICK	K6VE	LOS ANGELES	CA	HARRY DANNALS	W2HD
05/07/94	26732	FOUSE, CURTIS	K8UC	WASHINGTON	WV	JOHN EDEL	K8LBZ
05/07/94	26733	HENDERSON, JED	WA5VJF	BALLWIN	MO	JOHN EDEL	K8LBZ
05/07/94	26734	HOLSTEIN, JOSEPH	N8EA	ORTONVILLE	MI	LEW MC COY	W1ICP
05/07/94	26735	KNOWLES, RICHARD N	WA9HHB	MONTGOMERY	IL	JOHN EDEL	K8LBZ
05/07/94	26736	LEWIS, G BRYSON	W4JYV	HERMITAGE	TN	JOHN EDEL	K8LBZ
05/08/94	26737	KOST, HAROLD S	K1HK	HOLLISTON	MA	-	-
05/08/94	26738	KRAMER, DONALD R	WA6UVW	YUCAIPA	CA	DON S GRANTHAM	WA6NLG
05/08/94	26739	LONG, REUBEN E	K2OVH	OWEGO	NY	JOHN EDEL	K8LBZ
05/08/94	26740	MELCHER, DON	N6IPE	OAKLAND	CA	BILL STEVENS	W6ZM
05/08/94	26741	MICHAELS, MIKE	K2GPI	YONKERS	NY	R GELBER	K2WR
05/08/94	26742	MOLLICA, PHILIP R JR	K2UVC	WARWICK	NY	BILL STEVENS	W6ZM
05/09/94	26743	NORRIS, JOHN T	WA9HMN	BRAZIL	IN	ED NORRIS	K9PSR
05/09/94	26744	OSBORN, WILLIAM TERRY	KD8B	JACKSON	MI	JOHN EDEL	K8LBZ
05/09/94	26745	RECH, JOHN	WA0PEV	MINNEAPOLIS	MN	JOHN EDEL	K8LBZ
05/09/94	26746	SCRIBER, MARVIN E	KE6JT	BEND	OR	CAROLYN BROOKS	N7ORJ
05/09/94	26747	SMIKTH, JAMES C	WA0OFM	LEE'S SUMMIT	MO	BILL STEVENS	W6ZM
05/09/94	26748	WATTS, JERRY L	KN4IE	WARNER ROBINS	GA	JOHN EDEL	K8LBZ
05/09/94	26749	ZEIGLER, THORNTON W JR	K8GNM	HUNTSVILLE	AL	JOHN EDEL	K8LBZ
05/09/94	26750	DAVID, DONALD R	KD0BU	PRAIRIE VILLAGE	KS	LEE BREGREN	W0AR
05/09/94	26751	MILLER, LEONARD R	K8GM	ELK RAPIDS	MI	-	-
05/10/94	26752	HAGAL, BRIAN L	N2ITG	LYNDHURST	NJ	CARL MAGNIFICO	NK2K
05/10/94	26753	JOHNSON, EVERETT G	W7TCA	PORT LUDLOW	WA	PAUL S MORRIS	W7GT
05/10/94	26754	BREYER, H D SR	WB6NIG	ANZA	CA	GARLAND V MOORE	WB6NSX
05/12/94	26755	BENNETT, FLOYD L	KF9AA	MURPHYSBORO	IL	GEORGE NIELSON	W9OTX
05/12/94	26756	VEATCH, JULIAN	K4PGV	LOUISVILLE	GA	DONALD R ANDERSON	K4PSW
05/13/94	26757	HAWKINS, WILLIAM T JR	KH6HDA	EDMONDS	WA	-	-
05/13/94	26758	MORRISON, MARTHA M	NS5H	SAN ANTONIO	TX	-	-
05/13/94	26759	WOERNER, EDWIN E	WA0QJK	LINCOLN	NE	-	-
05/16/94	26760	JEWELL, KENT J	KG7LH	DEPOE BAY	OR	CARL SCHMADER	K7EWG
05/16/94	26761	MARSH, TERRENCE A	KB8FK	YPSILANTI	MI	JOHN EDEL	K8LBZ
05/16/94	26762	TAYLOR, JAMES P	K9JT	MENOMONEE FALLS	WI	ART VAHOVIUS	W9VSO
05/16/94	26763	UNETICH, ROBERT M	N3CPV	SWANTON	MD	BLANCHE RANGLES	W4GXZ
05/17/94	26764	OAKLEY, GENE E	W7NUT	RENO	NV	LARRY E OAKLEY	W7AAA
05/17/94	26765	RINEHART, JAMES D	WB9PXR	INDIANAPOLIS	IN	-	-
05/18/94	26766	MOORE, JAMES C	WU3V	ABBEVILLE	LA	LIONEL A OUBRE	K5DPG
05/19/94	26767	JACKSON, EZELL L	WA3NAP	HARRISBURG	PA	JAMES E THOMAS	KA3JOG
05/20/94	26768	EARNHART, WILLIAM H	W9MNM	INDIANAPOLIS	IN	-	-
05/20/94	26769	NELSON, FLEE	KX5J	LAFAYETTE	LA	-	-
05/20/94	26770	WARD, ROBERT L	K2PPK	EAST AURORA	NY	KENNETH R PALMER	K2FJ
05/23/94	26771	LUSCHER, JAMES J SR	AA2EN	ARCADE	NY	DON E WAGNER	W2QFC
05/23/94	26772	SIMON, DONALD J	W6PQS	LOVELAND	CO	JOHN PETERS	K1ER
05/23/94	26773	TANGEMAN, ROBERT F	K17XG	WOLD CREEK	OR	-	-
05/23/94	26774	BETZ, HENRY V	K3FFJ	CHAMBERSBURG	PA	MARSHALL STENGER	W3KRM
05/23/94	26775	HARDY, FRANK A	W8AVW	LEWISBURG	WV	-	-
05/23/94	26776	HARRIS, GORDON WALTER	W7UIZ	RENO	NV	LARRY E OAKLEY	W7AAA
05/23/94	26777	MORGAN, IRVIN CHARLES	WB6MBN	BIG BEAR LAKE	CA	DON S GRANTHAM	WA6NLG
05/26/94	26778	MIYAKE, SHOJI	JA6EGL	FUKUOKA, JAPAN		CRAIG W VAGELL	WR2G
05/26/94	26779	BRAY, DAVID W	K2LMG	POTSDAM	NY	H J DANNALS	W2HD
05/26/94	26780	COLEMAN, WILLIAM D	WF2A	VESTAL	NY	BILL VALKY	K2MFB

DATE	NO.	NAME	CALL	CITY	ST	SPONSOR	CALL
05/26/94	26781	FOSTER, EARL JOHN	W3BKF	GILLET	PA	WILLIAM THOMPSON	W2MTA
05/26/94	26782	GROFF, GEORGE S	N2TQD	EDEN	NY	H J DANNALS	W2HD
05/26/94	26783	KIMBELL, WILLIAM L	W2TYO	SYRACUSE	NY	H J DANNALS	W2HD
05/26/94	26784	SPERRY, DAVID G	WA2SHM	AMHERST	NY	STAN ZAK	K2SJO
05/26/94	26785	STARON, RICHARD	VE3FAC	SCARBOROUGH	ON	H J DANNALS	W2HD
05/26/94	26786	STATHIS, THEODOR	KA3EGV	MOUNT AIRY	MD	H J DANNALS	W2HD
05/27/94	26787	ADAMS, BRUCE B	W1UPB	LINCOLN	RI	-	-
05/27/94	26788	MCBRIDE, ROBERT R	WA5RLU	CORPUS CHRISTI	TX	JOHN EDEL	K8LBZ
05/27/94	26789	PARCELS, REX L	K7AZ	RENO	NV	DON FREEMAN	WS2Z
05/31/94	26790	HOOVER, ROBERT R	K7KLT	SPARKS	NV	DON FREEMAN	WS2Z
06/01/94	26791	CALDERWOOD, WILLIAM L	K1CT	SAN DIEGO	CA	STEVE ADAMS	K6PD
06/01/94	26792	GOVER, SAM	WA5WHO	OKLAHOMA CITY	OK	NORMAN WILSON	W5FLO

1994 QSO Party Results

Compiled by: Walt Brink, W3WPY, and Bill Miller, K2GC

Results: 1994 CW QCWA QSO Party

NO.	CALL	CH	NAME	SCORE	QSOS	MULTS	NO.	CALL	CH	NAME	SCORE	QSOS	MULTS
1	W0MHS/4	49	DAVE	45,942	403	114	39	K3TX	5	DAVE	5,720	104	55
2	W5EC	AL	BILL	42,460	386	110	40	W9WM	159	BILL	5,700	100	57
3	K9CLO	AL	BILL	32,200	322	100	41	W9ZEN	59	JOHN	5,600	100	56
4	W4WKQ	84	JOHN	28,943	281	103	42	AE7B	140	DAVE	5,585	72	48
5	W4XD	155	JOE	24,000	250	96	43	W8TIV	9	CHAS	5,555	101	55
6	K3CP	17	VAN	22,770	253	90	44	W6FU	7	KEN	5,500	100	55
7	K6NL	AL	FRANK	21,690	241	90	45	AA0AN	AL	RON	5,459	103	53
8	W5KL	90	LELAND	18,144	216	84	46	K2IC	5	EARL	5,200	104	50
9	K7BZ	16	STAN	14,586	187	78	47	AE9Q	AL	WALT	5,148	99	52
10	W6IL	7	RALPH	14,250	190	75	48	K9WA	AL	JAMES	4,982	106	47
11	W4BK	32	ART	14,235	195	73	49	VE3OL	73	LESS	4,944	103	48
12	W5JC	38	JIM	13,090	170	77	50	W3FYK	17	BILL	4,655	95	49
13	W9GIL	55	JOHN	12,600	180	70	51	K9UQN	AL	DON	4,558	86	53
14	W9MY	AL	WALT	11,999	169	71	52	K5JGU	27	BUD	4,320	90	48
15	W6BIP	11	BIP	11,856	208	57	53	VE7SR	151	JOHN	4,312	88	49
16	W2TO	AL	HANS	11,096	152	73	54	K0WXO	25	JIM	4,214	98	43
17	K4BAI	AL	JOHN	10,990	157	70	55	W4ZC	23	JACK	4,214	86	49
18	W4YE	91	LELAND	10,950	150	73	56	W6IFC	99	LYMAN	4,165	85	49
19	W3TDF	17	RAY	10,850	155	70	57	AB2N	138	ARNOLD	3,870	86	45
20	K0RH	53	RON	10,660	164	65	58	W9MKL	2	BILL	3,726	81	46
21	W6ISQ	11	JOHN	10,564	139	76	59	K5BDX	72	DON	3,496	76	46
22	K2AA	45	NORM	9,920	160	62	60	W3TFA	23	STAN	3,320	83	40
23	K0ERM	102	DAVE	9,288	172	54	61	K4KQ	45	CHAS	3,312	72	46
24	W9REC	2	BILL	8,246	133	62	62	VE3MMQ	73	GEORGE	2,775	75	37
25	K1ZZ	AL	DAVE	8,083	137	59	63	W1CNU	149	RALPH	2,752	64	43
26	W5EFB	27	JIM	7,847	133	59	64	W3DAD	20	KEVIN	2,736	72	38
27	W2LS	AL	BILL	7,300	100	73	65	W6NT	AL	RAY	2,553	69	37
28	W4KHV	AL	RICH	7,068	114	62	66	W9DU	55	UKE	2,520	72	35
29	W2WOE	55	CHARLIE	7,000	125	56	67	K8IP	AL	IKE	2,394	63	38
30	K4LRX	AL	BILL	7,000	100	70	68	K4LMB	91	ETHEL	2,360	59	40
31	W6FQ	7	HERB	6,968	104	67	69	W0CY	101	JIM	2,132	52	41
32	N9EAY	55	DON	6,612	114	58	70	W9NN	174	BOB	2,000	50	40
33	AA7JM/TI4	AL	VAREL	6,440	115	56	71	W0PFG	79	A.C.	1,950	50	39
34	W5CJZ	27	BARNEY	6,380	110	58	72	W9YCV	55	LESTER	1,887	51	37
35	W7GB	87	DON	6,060	101	60	73	VE2XLT	AL	YURI	1,885	65	29
36	W4HU	91	JOHN	5,900	118	50	74	W5LJI	63	CAL	1,850	50	37
37	W0AWP	79	AL	5,886	109	54	75	W1JSM	112	DON	1,802	53	34
38	KC4TEK	AL	JOE	5,883	111	53	76	W3ABC	23	HUGH	1,720	50	34

NO.	CALL	CH	NAME	SCORE	QSOS	MULTS
77	W8WTL	AL	ART	1,612	52	31
78	K6BPB	AL	LEW	1,600	50	32
79	HP1AC	AL	CAMILO	1,586	61	26
80	W2HTX	16	LEROY	1,550	50	31
81	W3LOV	150	TOM	1,408	44	32
82	W5OC	41	NORM	1,404	52	27
83	W0LK	90	BOB	1,400	56	35
84	WB3KMX	150	RON	1,333	43	31
85	W8KKM	79	KATHY	1,296	48	27
86	W3ADE	37	LEW	1,224	51	24
87	K2FD	138	GEORGE	1,200	40	30
88	K6SS	130	LEN	1,125	45	25
89	K4AXB	45	CHARLES	1,085	35	31
90	WB8BHP	135	DAN	1,054	34	31
91	WA5MUF	AL	BILL	1,035	45	23
92	N6PZ	AL	DAVE	1,008	42	24
93	WB2CJE	138	HAROLD	980	35	28
94	DL6NB	106	HANS	950	50	19
95	W8GD	142	DAVE	868	31	28
96	VE3QU	73	MEL	858	39	22
97	W3NGO	122	RICH	825	33	25
98	WB4AUB	AL	ANCEL	775	31	25
99	N4UZ	AL	AL	750	30	25
100	W2KGI	96	BOB	660	30	22
101	W2VCV	AL	JOHN	609	29	21
102	K4SS	44	ED	600	30	20
103	W0AP	25	JOHN	600	25	24
104	W5NCB	AL	WALKER	600	25	24
105	W1PB	107	CHARLIE	572	26	22
106	W7HO	AL	O.R.	550	25	22
107	W9KQ	AL	RALPH	550	25	22
108	W6KZJ	11	LARRY	550	25	22
109	PJ9JT	AL	JOHN	506	23	22
110	W2IP	46	HAROLD	500	25	20

NO.	CALL	CH	NAME	SCORE	QSOS	MULTS
111	W1KAM	AL	BILL	400	20	20
112	W8IJ	37	DAVE	380	20	19
113	K4KPH	82	BILL	375	25	15
114	AB5OU	AL	TIM	360	20	18
115	N1SA	149	STEPHEN	304	19	16
116	K2MN	AL	STEVE	286	22	13
117	W2VEX	65	NORM	272	17	16
118	K14KR	60	DICK	240	16	15
119	N7JB	AL	JIM	224	16	14
120	K4RT	53	BILL	208	16	13
121	W3ZMN	17	CLARK	204	17	12
122	W9BCC	174	FRANK	198	18	11
123	W13U	122	HENRY	195	15	13
124	W5GEL	101	BOB	192	16	12
125	W1EFW	149	MILT	176	16	11
126	W6NKR	169	MARION	168	14	12
127	K7LNS	168	FIELDING	120	12	10
128	DL1SP	AL	ARTHUR	112	16	7
129	W1WW	89	GEORGE	108	12	9
130	DL0QCW	106	AL	104	26	4
131	DF3OL	106	JUERGEN	96	24	4
132	DL1VU	106	KARL	90	18	5
133	W0DKL	8	BEN	81	9	9
134	W4KM	23	DEX	72	9	8
135	K7YQI	AL	TOM	72	9	8
136	K2WW	16	CHUCK	36	6	6
137	WB4DRF	45	AL	36	6	6
138	DL6DV	106	ERNST	30	15	2
139	K2GCE	81	BILL	25	5	5
140	DL9PR	AL	HERMANN	6	3	2
141	KM7T	178	MIKE	6	3	2
142	W6PCI	AL	GERALD	4	2	2
143	W5PV	AL	GEORGE	1	1	1

Results: 1994 SSB QCWA QSO Party

NO.	CALL	CH	NAME	SCORE	QSOS	MULTS
1	W4WKQ	84	JOHN	37,145	323	115
2	K3CP	17	VAN	34,188	308	111
3	K9CLO	AL	BILL	32,340	294	110
4	W6IL	7	RALPH	26,190	270	97
5	WB4DRF	45	AL	20,210	215	94
6	W3TDF	17	RAY	16,878	194	87
7	K0RH	53	RON	15,604	188	83
8	W6FQ	7	HERB	14,525	175	83
9	K2AJY	AL	GARY	12,062	163	74
10	W5JC	38	JIM	10,792	142	76
11	VP2MDB	138	DAVE	8,636	127	68
12	W8CBA	142	BOB	7,935	115	69
13	AE7B	140	DAVE	7,812	124	63
14	W1WW	89	GEORGE	6,767	101	67
15	W2WOE	55	CHARLIE	6,195	105	59
16	K7AA	16	NORM	5,778	107	54
17	W3FZV	16	PHIL	5,050	101	50
18	WB3KMX	150	RON	4,784	92	52
19	W5GVP	72	TOM	4,662	74	63
20	W4GXZ	112	BLANCHE	3,952	76	52
21	W6RXD	7	ED	3,876	76	51
22	W3TFA	23	STAN	3,825	85	45

NO.	CALL	CH	NAME	SCORE	QSOS	MULTS
23	WA7WFO	176	CHET	3,735	83	45
24	W1PB	107	CHARLIE	3,634	79	46
25	W1SE	45	LEE	3,550	71	50
26	VE3MMQ	73	GEORGE	3,496	76	46
27	W1KKG	149	SPERRY	3,312	69	48
28	WA9ENA	2	DALE	3,010	70	43
29	W3WPY	150	WALT	3,008	64	47
30	K6SS	130	LEN	2,982	71	42
31	WA3BRW	1	BOB	2,706	66	41
32	W2QI	65	TOM	2,640	66	40
33	W9JK	55	JACK	2,442	66	37
34	W5KL	90	LELAND	2,394	63	38
35	W4NZJ	49	JUD	2,340	65	36
36	W9REC	2	BILL	2,268	63	36
37	WA4ZZL	60	RON	1,904	56	34
38	W2KGI	96	BOB	1,848	56	33
39	WB9FBI	55	LEW	1,760	55	32
40	W9MKL	2	BILL	1,681	41	41
41	W3QPP	122	PAUL	1,560	52	30
42	K4AXB	45	CHARLIE	1,518	46	33
43	W8WVM	30	ARNOLD	1,488	48	31
44	W3FYA	AL	DOUG	1,470	42	35

NO.	CALL	CH	NAME	SCORE	QSOS	MULTS
45	WA9CCQ	2	KARL	1,440	48	30
46	K2EJ	AL	KEN	1,271	41	31
47	W8FDN	1	RICH	1,200	40	30
48	W3FYK	17	BILL	1,188	44	27
49	W9WYN	AL	JACK	1,150	46	25
50	W0DFT	19	RAY	1,134	42	27
51	W0RTV	19	DON	1,120	40	28
52	VE3AJW	73	FRED	1,064	38	28
53	K4EZ	49	BEN	1,056	44	24
54	W2VEX	65	NORM	1,000	40	25
55	WB4AUB	AL	ANCEL	962	37	26
56	W9LOB	2	AL	950	38	25
57	VE3AHZ	70	JACK	900	36	25
58	W9NVK	162	ED	782	34	23
59	W2OD/7	138	BOB	775	31	25
60	K7AA	16	RAY	768	32	24
61	W3TPW/4	122	BERT	750	30	25
62	W2VCV	AL	JOHN	736	32	23
63	VE7SR	AL	ERIC	735	35	21
64	WD9DJD	42	PAUL	720	30	24
65	W3MDO	AL	ERNIE	696	29	24
66	W5LJI	63	CAL	660	30	22
67	KD0IR	19	CARL	640	32	20
68	W0PEX	123	AL	630	30	21
69	W8SWN	10	JOHN	575	25	23
70	NS3O	6	GEORGE	575	25	23
71	W5OC	AL	NORM	558	31	18
72	W0CY	110	JIM	540	27	20
73	W4OGG	AL	DAVE	525	25	21
74	W3FQS	31	ELMER	500	25	20
75	VE3MO	73	HARRY	456	24	19
76	W4COW	112	WES	450	18	25
77	K2SST	138	RON	437	23	19
78	W7LVN	108	JIM	432	27	16
79	W3LOV	150	TOM	414	23	18
80	W2JBL	77	GEORGE	396	22	18
81	W5FFY	AL	JOHN	391	23	17
82	KI6KJ	169	RUSS	357	21	17
83	W4ZC	23	JACK	357	21	17
84	VE3QU	73	MEL	336	24	14
85	NR2Z	AL	DOM	336	21	16
86	DL6NB	106	HANS	320	20	16
87	W4HU	91	JOHN	320	20	16
88	W0TRV	19	DON	315	21	15

NO.	CALL	CH	NAME	SCORE	QSOS	MULTS
89	W5EFB	27	JIM	304	20	17
90	W8EGI	135	DON	286	22	13
92	W3ABC	23	HUGH	285	19	15
93	K9JIG	174	DENIS	285	19	15
94	W2DME	138	PHIL	255	17	15
95	W0WLN	162	BOB	255	17	15
96	W2IP	46	HAROLD	252	18	14
97	W3JWH	150	BILL	252	18	14
98	WA0OZP/5	110	HARVEY	240	16	15
99	K4VN	49	WENDELL	200	20	10
100	KI4KR	60	DICK	195	15	13
101	W4YE	91	LELAND	180	15	12
102	K7YQI	16	TOM	170	17	10
103	W3PVO	150	GEORGE	165	15	11
104	W3MMJ	122	SID	160	16	10
105	W6SYM	136	RAY	160	16	10
106	W3AZD	149	DON	138	17	14
107	W7LET	122	DON	132	12	11
108	K9UQN	AL	DON	130	13	10
109	W9YCV	55	LESTER	130	13	10
110	WB2CJE	138	HAROLD	121	11	11
111	DL1VU	106	KARL	121	11	11
112	K0WXO	25	JIM	120	12	10
113	W6ISQ	11	JOHN	110	11	10
114	W2QI	65	TOM	110	11	10
115	KM7T	178	MIKE	110	11	10
116	W2HPB	31	JOEL	90	10	9
117	W6JQB	130	AL	72	9	8
118	W9BCC	174	FRANK	70	10	7
119	W3FZT	137	LEW	64	8	8
120	WB4FSF	AL	BONNIE	60	10	6
121	W5GEL	101	BOB	56	8	7
122	W2PFD	29	JIM	56	8	7
123	K3TX	5	DAVE	49	7	7
124	W9GKM	162	C.J.	42	7	6
125	KE3IK	AL	HANK	35	7	5
126	N7JB	AL	JIM	20	5	4
127	WA5WAR	90	HELEN	16	4	4
128	W9FJE	55	AL	10	5	2
129	W9RZW	174	ERWIN	5	5	1
130	W9LDH	AL	SPENCER	4	2	2
131	W1LDP	AL	PAUL	2	2	1
132	W8IJ	37	DAVE	1	1	1
133	WA9JMO	162	LAWRENCE	1	1	1

The 1994 Classic Radio Exchange Contest Announced

The 1994 Fall Classic Radio Exchange contest will take place between September 25-26, 1900 UTC to 0400 UTC. Exchange your name, RST, QTH, receiver and transmitter type (homebrew send final amp tube or transistor) and other interesting conversation. A classic radio is one that is at least 10 years old. The same station may be worked using different equipment. On CW call "CQ CX" and on Phone call "CQ Classic Exchange."

Scoring: Multiply total QSOs (all bands and modes by the following sum: (total number of different receivers and transmitters worked on each band and mode plus the total number of states/provinces/countries worked on each band and mode). Multiply that total by your Classic Multiplier, the total years old of all receivers and transmitters used. Note: you must have three QSOs minimum per unit to qualify. If the equipment is a transceiver, multiply age by two. If homebrew, count as 25 years old unless actual construction date or design is older.

Certificates are awarded every now and then for the highest score, exotic equipment, the best excuse, and other unusual achievements. Send logs, comments, anecdotes, pictures, to : Jim Hanlon, W9KGI/5, P.O. Box 581, Sandia Park, NM 87047. Include SASE for next CX Newsletter.

Send an SASE to Stu Stephens K8SJ/VP2MFA, 749 E. Prospect St., Girard, OH 44420, for a complete set of rules.

The Wireless Exchange



QCWA members often restore, repair, and trade radio gear from all eras. Getting and keeping that vintage station going sometimes requires finding help or getting that special part. The "Exchange" column is here to serve as well as help members get in touch with others of similar interests. Guidelines for use of the "Exchange" column have been published since its beginning. They are:

- (1) List your trade or want clearly and simply.
- (2) List what you will accept in trade.
- (3) List your asking price if no trade is possible.
- (4) If you advertise, hold the merchandise long enough for members to receive their *Journal* and read the "Exchange" column.
- (5) Answer all inquiries to your ad.

These ads are presented as a free service to paid members of QCWA. If you have any questions or need more help, just write Doug at the above address. The publisher reserves the right to reject any advertisement.

Hosted by: J. Douglas Hensley, WJ5J, 5678 College Drive, Baton Rouge, Louisiana 70806

For Sale and Wanted

For Sale: "S" meter for National receiver, model unknown. Flanged, 2 1/4" o.d., mounts in 2" dia. hole, 1 1/2" depth. Has provision for indicator bulb. Made for National by Marion Electric Inst. Co. of Manchester, New Hampshire. Mint condx. \$25 plus UPS. Lou Sabetto, W8ZXG, 1717 Burgess Road, Cleveland, Ohio 44112; (216) 481-1036 evenings.

Wanted: NCX/A power supply/speaker console. Original factory model wanted (no homebrew) in good condition. John Vasicak, W9ZEN, 124 North Glen Avenue, Oglesby, Illinois 61348.

Wanted: HRO-7 coils, any frequency, one coil, two coils, or a bunch. Will pay your price and shipping. Arnie Chick, WK1H, P.O. Box 385, Auburn, Maine 04212 or collect (207) 786-4267.

For Sale: Nye Viking model 020-001 2 KW Low-pass filter, \$30 plus \$5 UPS. Nate Williams, W9GXR, 6915 Prairie Drive, Middleton, Wisconsin 53562.

Wanted: Clean Hammarlund HQ-170; E. F. Johnson Pacemaker, Valiant, Model 250-39 T-R Switch; Palomar Model P410X preamplifier. Ed Strickland, AB6YW, P.O. Box 1441, Vallejo, California 94590; (707) 642-9842.

Wanted: Signal Corps J-40, J-41, J-46 through J-49, as well as Lionell J-36 and Bunnell Goldbug keys. Also need dial for National SW-3. David Combs, W5VJW, 2000 Victory Ave., Wichita Falls, Texas 76301; (817) 767-0077.

For Sale: Murdock Radio headset, one only, complete with headband and cloth cord with pin connectors, good condition. My collection has a set so this one to you for \$45 plus UPS. Clara Horstman, W7DWH, 4109 S. Driftwood, Spokane, Washington 99206; (509) 922-5708.

Wanted: Two 200 MFD (450V) axial lead electrolytics. Also need spare parts for Drake L4B amplifier. **For Sale:** Jones Model 262 MicroMatch, mint, \$30. Thanks to all who sent me "Welcome to QCWA". Evan Rolek, K9SQG, 2053 Mohave Drive, Dayton, Ohio 45431; (513) 426-1986 (6-11 pm EST).

Wanted: Callbooks for Amateur Radio from day one to 1949. Will buy or trade. I have the following Citizens Radio Call Books: Vol 6 #2 (1925), Vol 7 #1 & #3 (1926), Vol 8 #3 (1927), Vol 11 #3 (1930), Vol 12 #2 (1931). Also have Radio News Special 1944 edition of U.S. Army Signal Corp Issue with pictures of all the WW2 radio equipment (Radio News Feb 1944 Vol 31 #2). M. Hoshiko, W9CJW-VE7SIU, 707 South James St., Carbondale, Illinois 62901.

For Sale: Eico model 944 Flyback Xfmr, Yoke, & Xfmr Tester. Using grip-dip meter principle, it provides a short test that will reveal even one shorted turn. New condx., \$40. Stan Egelberg, W2WQK, 4

Sage Place, Eastchester, New York 10707. (914) 337-6159.

Wanted: VFO adjustment tool for 75A3; Hallicrafters or Knight VFO; Autronic keyer paddle; an old CDE rotator or control box or both (Ham-M, Ham II, CD-44, etc.) or Alliance rotator or control box or both (U-100 or similar). State lowest price in first letter, please. Dave Heil, A22MN (K8MN), Gaborone/Dept. of State, Wash. DC 20521-2170.

Wanted: Command transmitters, accessories, TCS Receiver. Minor mods okay but please, no junkers! Cash or trade. Paul Gregg, W9POC, 725 College Way, Carmel, Indiana 46032. (317) 846-3094.

For Sale: Panasonic P-1092 printer in need of repairs, \$50 shipped; 80,40, and 20 meter dipole antenna, complete with all wires, coax, and associate parts (lacking center and end masts), \$50 shipped; 32 copies of QST, \$15 plus postage; Heath digital weather computer, model ID-4001, with manuals and wiring, \$75 shipped. Robert Dobbins, WD2AHT, 733 Plantation Estates Drive - A-412, Matthews, North Carolina 28105-9143.

Wanted: Control head for the ARN-6 Airborne DF rcvr, with cables if possible. Andy Sallet, W1TG, 10 Wellesley Road, Nashua, New Hampshire 03062-1318.

Wanted: U.S. Army Signal-Corps, model J-30, semi-automatic key to bring back old memories. Description: Cast iron base, black paint, rubber feet, nickel-plated mechanism, factory etched tag with model number, manufactured by Brooklyn Metal Stamping Works, 1930. James Hall, W3ICR, 2025 Maravilla Circle, Fort Myers, Florida 33901. (800) 936-3411.

Wanted: AC power supply for Elmac A.F. transmitter and AC power supply and cord for Elmac PMR-7 receiver. Hulton Byrne, W5PBA, 3555 Eaton Street, Baton Rouge, Louisiana 70805-6013; (504) 355-3932.

For Sale: Vintage tubes, SASE for list. **Wanted:** Ampex 5868 triode, S-3702 plate connector, S-3703 socket, 10 volt, 10 amp center-tapped filament transformer. Carlton Trotman, W3BRX, 232 Sumner Place, Staten Island, New York 10301.

Wanted: Public domain software for the KAYPRO II computer, ca 1983, using the CP/M operating system. I would like to find a copy of Micro Comupia's extensive Public Domain Library on disk, their PRO-8+ system on prom, and any other interesting programs of a scientific or mathematical nature (no games). Steve Robbins, K3VWR, P.O. Box 1212, Cambridge, Maryland 21613-5212.

Collectors: National Type 3 plug-in coils, 3.5 through 30.0 MHz for HRO series in wooden box; Harvey-Wells "Band Master" TBS-50 unmodified

with manual; BC-221 SKS TS-164/AR freq. meter, 125 through 20,000 KHz; Collins 51N-2 fixed tuned AM-CW receiver, 115 VAC with manual; National SW-3 built into cabinet with AC supply, coils, and spkr. Best Offers plus UPS. Andy Clark, W4IYT, 41 Lenape Drive, Miami Springs, Florida 33166. (305) 888-3874.

Wanted: Johnson 500, Johnson Kilowatt, Hammerlund PRO-310, National NC-400, Hallicrafters SX-88, SX-115, Clegg Thor 6, Clegg FM-27, Tempo CT-220TR, Ten-Tec Argonaut. Steve Barnes, K6PFW, 848 N. Silverwood, Upland, California 91786; (909) 985-1062.

For Sale: FB AL-80A with external 12V power supply. Local pickup, \$575. Shipped, \$600. Send card if interested. Ed Bowley, W2VLH, 86-22 Dongan Avenue, Elmhurst, New York 11373.

Wanted: National FBXA, SW4 universal, National power supplies, Hammerlund PRO-310, Collins 75S3C, McMurdo Silver amateur equipment, Swan/Astro 102-103BX, Ten-Tec Argosy, John Hurst, KU6X, 2512 Euclid Crescent E., Upland, California 91784 or (909) 981-6759 anytime.

Wanted: National HRO 60; power supply for Heath Chippewa HL-1 (2KW amp); any condition SX-115, HT-32B, HT-33B; Heath HA-20 6m amp, SB-620 monitor; RCA 7094 tubes. SASE for trade list. QSO Doug via the Exchange.

Manuals, Schematics, or Correspondence Needed

Wanted: Manual & schematic on the Courier Port-A-Lab 500D SWR/Power meter. Ernie Hanson, VE3FX, 1706-5 Vicora Linkway, Don Mills, Ontario, CANADA M3C 1A6. (416) 429-4570.

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